

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
DOW CHEMICAL COMPANY - LOUISIANA DIVISION
VINYL II PLANT
PROPOSED PART 70 AIR OPERATING PERMIT RENEWAL/MODIFICATION

The LDEQ, Office of Environmental Services, is accepting written comments on a Part 70 air operating permit renewal/modification for Dow Chemical Company - Louisiana Operations, P.O. Box 150, Plaquemine, LA 70765-0150 for the Vinyl II Plant. **The facility is located at 21255 Highway 1, Plaquemine, Iberville/West Baton Rouge Parishes.**

The Dow Chemical Company - Louisiana Operations requested a Part 70 air operating permit renewal/modification for the plant on October 19, 2004. Additional information dated September 2, 2005 was also received. There is no project associated with this renewal/modification. The emissions changes are due to updating emission calculations. The facility currently operates under Permit No. 2665-V6, dated April 2, 2004.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	27.7	27.51	-0.19
SO ₂	3.2	3.07	-0.13
NO _x	178.7	178.51	-0.19
CO	106.1	111.91	+5.81
VOC	123.8	121.47	-2.33

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Tuesday, June 12, 2007.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, proposed Part 70 air operating permit renewal/modification, statement of basis and "Revised Expanded IT Decision" questions are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through

Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.**

Additional copies may be reviewed at Iberville Parish Library-Plaquemine Branch, 24605 J. Gerald Berret Blvd., Plaquemine, LA and West Baton Rouge Parish Library, 830 N. Alexander Avenue, Port Allen, LA.

Inquiries or requests for additional information regarding this permit action should be directed to Dr. Tingzong Guo, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3140.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at maillistrequest@ldeq.org or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 1409, Permit Number 2665-V7, and Activity Number PER20040070.

Publication date: May 10, 2007



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER20040070

Agency Interest No. 1409

Mr. Vic McMurray
Production Leader
Vinyl II Plant, Dow Chemical Co - Louisiana Operations
PO Box 150
Plaquemine, LA 70765-0150

RE: Part 70 Operating Permit Renewal/Modification, Vinyl II Plant, Dow Chemical Co - Louisiana Operations, Dow Chemical Co, Plaquemine, Iberville/West Baton Rouge Parish, Louisiana

Dear Mr. Vic McMurray:

This is to inform you that the permit renewal/modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2012, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2007.

Permit No.: 2665-V7

Sincerely,

Chuck Carr Brown, Ph.D.
Assistant Secretary
CCB: TZG
c: EPA Region VI

ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

WWW.DEQ.LOUISIANA.GOV

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**VINYL II PLANT
DOW CHEMICAL CO - LOUISIANA OPERATIONS, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA**

I. Background

The Dow Chemical Company-Louisiana Operations operates the Vinyl II Plant in the Louisiana Operations Complex located in Plaquemine, Louisiana. The site had previously been issued Permit No. 455 dated May 20, 1975, for construction of the Vinyl II Plant; Permit No. 1071T dated December 5, 1978, for installation of a vinyl chloride storage sphere; and Permit No. 2042 on August 10, 1988, for the addition of a furnace and consolidation of all other permits. Later, a modified Permit No. 2042(M-1), dated January 3, 1991, was approved for the installation of a furnace. The Permit No. 2285 dated December 1, 1994, which updated all the emission points, included a flare, and replaced a 700 hp thermal recovery oxidizer (THROX) boiler with a 1,200 hp boiler. A Part 70 Permit No. 2665-V0 dated April 19, 2000, was granted which allowed Dow to replace an existing oxy-chlorination reactor system with a dual reactor system and associated equipment. Permit No. 2665-V1 dated June 29, 2000, allowed to install and operate a new pipeline to supply vinyl chloride monomer to Shintech PVC Plant. Permit Numbers 2665-V2, 2665-V3, 2665-V4 and 2665-V5 were issued on January 26, 2001, February 27, 2002, August 30, 2002, and October 10, 2003 respectively. Currently, the Plant operates under Permit No. 2665-V6, dated April 2, 2004.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by Dow Chemical Co on October 19, 2004 requesting a Part 70 operating permit renewal. Additional information dated September 2, 2005 was also received.

III. Description

Vinyl II Plant produces 1,2-dichloroethane (EDC) by the oxy-chlorination process and vinyl chloride (VC) by thermal dehydrochlorination of EDC. Hydrogen chloride (HCl) is a by-product of VC production and is used in the oxy-chlorination process to produce EDC and is also used elsewhere in the Louisiana Division. The VC is purified, stored and distributed via tank cars, pipelines, and ships. EDC is either produced in the plant or imported via pipeline or barge. Two THROX units (F-410 and F-420, Permit No. 2285-V3) are utilized to incinerate the vent gases and by-product process liquids. The Vinyl II Plant is also authorized to incinerate vent gases in the Chlorinated Methanes Plant THROX.

There is no project associated with this renewal/modification. This renewal/modification included the following changes:

- (1) Requested an additional extension on the dual reactors R-202A and R-202B. These two reactors was part of a small source permit in 1999. This small source permit was

AIR PERMIT BRIEFING SHEET
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PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

incorporated into the Part 70 operating permit 2665-V0 issued April 19, 2000, and Part 70 operating permit 2665-V5 issued October 10, 2003. The construction permit for these two reactors was expired on October 10, 2005. Additional extension is needed due to the fact that market conditions at any point in time may dictate the need for these two reactors. The reactors have already been purchased and are available.

- (2) Provide updates on names throughout the permit, revise scrubber characteristics (stack, height, etc.) and change maximum hourly permit limit for four components due to recent installation of new HCl scrubber, C-431-1(Source ID YA). Additionally, incorporate PIT-450 with scrubber source due to recent analytical data which demonstrates the fate of the acetylene is to the scrubbers bottoms stream which cause the acetylene to be emitted from the corresponding PIT-450, rather than the stack of the scrubber.
- (3) Reconcile maximum hourly emission rate at T-585 (source ID 9Z10 due to need to occasionally take the cooling media for the vent condenser out of service for maintenance.
- (4) Update the regulatory tables.

The emissions changes are due to updating emission calculations. Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	27.7	27.51	-0.19
SO ₂	3.2	3.07	-0.13
NO _x	178.7	178.51	-0.19
CO	106.1	111.91	+5.81
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LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
1,1,1-Trichloroethane	0.2	0.13	-0.07
1,1,2,2-Tetrachloroethane	-	<0.01	+ <0.01
1,1,2-Trichloroethane	0.31	0.21	-0.10
1,2- Dichloroethane	17.95	17.78	-0.17
1,2- Dichloropropane	-	<0.01	+ <0.01
1,3-Butadiene	-	<0.01	+ <0.01
1,4-Dichlorobenzene	-	<0.01	+ <0.01
2,2'-Dichlorodiethylether	-	<0.01	+ <0.01
Acetaldehyde	-	<0.01	+ <0.01
Benzene	0.02	<0.01	-0.02
Carbon tetrachloride	0.90	0.89	-0.01
Chlorine	2.1	2.05	-0.05
Chlorobenzene	-	<0.01	+ <0.01
Chloroethane	0.80	0.75	-0.05
Chloroform	1.31	1.29	-0.02
Chloroprene	-	<0.01	+ <0.01
Ethylene glycol	-	<0.01	+ <0.01
Hexachloroethane	-	<0.01	+ <0.01
Hydrochloric acid	9.3	9.29	-0.01
Methanol	-	<0.01	+ <0.01
Methyl chloride	0.04	0.01	-0.03
Naphthalene	-	<0.01	+ <0.01
Styrene	-	<0.01	+ <0.01
Tetrachloroethylene	-	<0.01	+ <0.01
Trichloroethylene	0.23	0.13	-0.10
Vinyl chloride	4.55	4.91	+0.36
Vinylidene chloride	-	<0.01	+ <0.01
Total	37.71	37.44	-0.27

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PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA**

Other VOC (TPY): 95.37

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) and Nonattainment New Source Review (NNSR) do not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. Air Toxic Compliance Plan No. 90210 was approved on March 20, 1995. Vinyl chloride emission increase (0.36 tpy) is over its minimum emission rate (MER) under Louisiana Air Toxic Regulations. The vinyl chloride emission increase is due to updating emission calculation for equipment opening (ARE 004, DZ). No other Class I and II TAPs have increased more than its MER under Louisiana Air Toxic Regulations.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

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VII. Effects on Ambient Air

Dispersion Model(s) Used: Not applicable.

VIII. General Condition XVII Activities

During startup/shutdown, propylene liquid and vapor from the refrigeration system have to be vented to the flare (efficiency = 99.3%) to prevent damage to plant equipment. The startup/shutdown emissions are 0.5 ton per year.

IX. Insignificant Activities

ID No.:	Description	VOC emissions (ton per year)	Citation
	Ethylene glycol tank T-330 (2,632 gallons)	0.20	LAC 33:III.501.B.5.A.3
	Emission CAP for tank emergency relief valves (ERV) maintenance	0.07	LAC 33:III.501.B.5.B.3
	Vinyl II facility painting	0.51	LAC 33:III.501.B.5.B.2
	Lined pipe emissions		LAC 33:III.501.B.5.D

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III. Chapter																	
		5 ^A	9	11	13	15	2103	2107	2111	2113	2115	2122	2147	2153	22	29*	51*	56	59*
GRP 128	Facility Wide	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
EQT 124	9Z1 Vent condenser for T-585					1													1
EQT 126	77 (Furnace F-101)		1	1	2														
EQT 127	78 (Furnace F-102)		1	1	2														
EQT 128	79 (Dowtherm F-110)		1	1	2														
EQT 129	81 (Furnaces F-103)		1	1	2														
EQT 130	82 (Furnaces F-104)		1	1	2														
EQT 132	HV (Furnaces F-105)		1	1	2														
EQT 133	LD (Furnace F-106)		1	1	2														
FUG 7	DW (Fugitives)												1						1
EQT 123	83 (Flare)		1	1	2									1					
EQT 137	YA (Scrubber C-431)													2					1
EQT 839	YB (Furnace Decoke Operation)				1									2					1
EQT 138	YC (Cooling Tower)																		1
EQT 139	YD (Surface Impoundment Pit)																	2	1
EQT 140	YF (Analyzer Vents)																		1
EQT 141	YG (Tank T-410)																		1
EQT 142	YH (Tank T-460A)																	3	1
EQT 143	YI (T-460B)																	3	1

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			5 ^A	9	11	13	15	2103	2107	2111	2113	2115	2122	2147	2153	22	29*	51*	56	59*
EQT 144	Y1 (Labhoods S-240)											2						1		
EQT 131	EI (Oil Pots) K-320 & K-330											2								
EQT 134	MS1 (Tanks T-260 PSA unit)					1												1		
EQT 135	MS2 (T-261 PSA unit)					1												1		
EQT 136	MS3 (T-230 PSA unit)					1												1		
EQT 145	YL (Tank T-510)					3									2			1		
EQT 167, 162, 165, 166	Distillation Columns C-140, C-235, C-260, and C-270											1		2				1		
EQT 149, 152, 163, 164	Distillation Columns C-100-1, C-230, C-250, and C-255											1		2				1		
EQT 150, 151	Distillation Columns C-220-2 and C-220-3											1		2	2			1		
EQT 146	Reactor R-201																	1		
EQT 147, 148	Reactors R-202A and R-202B																	1		
EQT 170, 171, 173, 174, 175, 151, 158, 159, 172, 153, 168, 169	Tanks T-120, T-130, T-160, T-161, T-162, T-223-3, T-225, T-240, and T-420-2 Drums D-541, D-111, and D-165					1												1		

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5 [▲]	9	11	13	15	2103	2107	2111	2113	2115	2122	2147	2153	22	29*	51*	56	59*	
EQT 155, 156, 160, 176	Tanks T-220-1, T-221-1, T-225, and T-400-2						1												1	
EQT 177, 178	VCM Tank Car Loading VCM Ship Loading							1											1	
EQT 179	Pressure Swing Absorption Unit																		1	
ARE 4	DZ, Equipment Openings									1									1	

* The regulations indicated above are State Only regulations.
 ▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS							40 CFR 61							40 CFR 63 NESHAP							40 CFR								
		A	Dc	Kb	Vv	NNN	RRR	A	F	V	FF	A	F	G	H	Y	Y	H	G	F	A	F	G	H	Y	Y	64	68	82		
GRP 128	Facility Wide	1	3		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	1	1	1	
EQT 124	9Z1 Vent condenser for T-585			3																											
EQT 126	77 (Furnace F-101)						3																								
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EQT 140	YF (Analyzer Vents)																														
EQT 141	YG (Tank T-410)			3																											
EQT 142	YH (Tank T-460A)			3																											

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		A	Dc	Kb	VV	NNN	RRR	A	F	V	FF	A	F	G	H	Y	64	68	82	
EQT 155, 156, 160, 176	Tanks T-220-1, T-221-1, T-225, and T-400-2			2																
EQT 177, 178	VCM Tank Car Loading VCM Ship Loading									1										
EQT 179	Pressure Swing Absorption Unit																			
ARE 4	DZ, Equipment Openings									1										

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
- 2 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 3 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.

Blank -- The regulations clearly do not apply to this type of emission source.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirements	Notes
Facility wide	40 CFR 64 Compliance Assurance Monitoring (CAM)	DOES NOT APPLY. Facility is subject to SOCMIHON, which is promulgated after November 15, 1990.
	40 CFR 60.40c NSPS, Subpart Dc Standard of Performance for Small Industrial - Commercial - Institutional Steam Generating Units	DOES NOT APPLY. All furnaces under this permit were not modified or reconstructed since June 9, 1989.
	40 CFR 63, Subpart Y - Marine Loading Operation	EXEMPT Emissions from all vinyl chloride marine loading operations are routed to a Thermal Treatment Unit.
	LAC 33: III 1503 Control of Sulfur Dioxide Emissions	EXEMPT All furnaces emit less than 250 tpy of SO ₂ . Subject to recordkeeping requirements.
EQT 124 (9Z1, Tank T-585)	40 CFR 60.116b NSPS, Subpart Kb - Standards of Performance for Storage Vessels for Petroleum Liquids.	DOES NOT APPLY. The tank was constructed and modified before July 23, 1984.
	40 CFR 60.700 NSPS, Subpart RRR - Standard of Performance for VOC Emissions from SOCMI Reactor Processes	DOES NOT APPLY. Furnaces were not modified or reconstructed since June 29, 1990.
EQT 126, 127, 129, 130, 132 (77, 78, 81, 82 and HV Furnaces F-101, F-102, F-103, F-104, and F-105)	LAC 33:III 2201 Control of Nitrous Oxide Emissions	EXEMPT. Furnaces meet exemption criteria because the NO _x factor is less than 0.18 lb/MMBtu.
	LAC 33: III 1503 Control of Sulfur Dioxide Emissions	EXEMPT All furnaces emit less than 250 tpy of SO ₂ . Subject to recordkeeping requirements.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirements	Notes
EQT 133 LD Furnace F-106	LAC 33:III 2201 Control of Nitrous Oxide Emissions	EXEMPT. Furnaces meet exemption criteria because the NOx factor is less than 0.18 lb/MMBtu.
EQT 128 (79, Dowtherm F-110)	LAC 33: III 1503 Control of Sulfur Dioxide Emissions 40 CFR 60.40c NSPS, Subpart Dc -- Standard of Performance for Small Industrial -- Commercial -- Institutional Steam Generating Units	EXEMPT All furnaces emit less than 250 tpy of SO ₂ . Subject to recordkeeping requirements. DOES NOT APPLY. Furnace has not been modified or reconstructed since June 9, 1989.
EQT 123 (83, Flare) Control Device (for emergency and vent release only)	LAC 33:III 2201 Control of Nitrous Oxide Emissions LAC 33: III 1503 Control of Sulfur Dioxide Emissions LAC 33:III.2147 Limiting VOC Emissions from SOCM I Reactor Processes and Distillation Operations	EXEMPT. Furnaces meet exemption criteria because the NOx factor is less than 0.18 lb/MMBtu. EXEMPT All furnaces emit less than 250 tpy of SO ₂ . Subject to recordkeeping requirements. EXEMPT. The source is complied with NSPS Subpart RRR per LAC 33:III.2147.A.2.g.
EQT 137 (YA, Scrubber C-431) (for emergency use only)	40 CFR 63, Subpart F - SOCM I HON 40 CFR 63, Subpart G - SOCM I HON LAC 33:III.2115 Waste Gas Disposal	DOES NOT APPLY. Does not meet definition of process vent under 40 CFR 63.101. DOES NOT APPLY. Does not meet definition of process vent under 40 CFR 63.101. EXEMPT. VOC (vent stream) < 3000 ppmv. Exempt as per LAC 33:III.2115.H.1.d.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

VINYL II PLANT
DOW CHEMICAL CO - LOUISIANA OPERATIONS, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirements	Notes
EQT 137 (YA, Scrubber C-431) (Continued)	LAC 33:III.2147 Limiting VOC Emissions from SOCMI Reactor Processes and Distillation operation	EXAMPT. For emergency (batch) use only. Exempt as per LAC 33:III.2147.A.2.b.
EQT 839 (YB, Furnace Decoke Operation)	40 CFR 60, Subpart RRR - Standards of Performance for Volatile Organic Compound Emissions From SOCMI Reactor Processes 40 CFR 63, Subpart G - SOCMI HON	EXEMPT as per 40 CFR 60.700 (c)(1) DOES NOT APPLY. Vent stream is not continuous.
EQT 140 (YF, Analyzer vents)	LAC 33:III.2115 Waste Gas Disposal SIP Approved LAC 33:III.2147 Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations 40 CFR 63.100 - 63.110 NESHAP, Subparts F and G (HON)	EXEMPT. Waste gas stream with VOC concentration less than 100 lbs in any continuous 24-hour period. LAC 33:III.2115.H.1.c. DOES NOT APPLY. Decoke operation does not meet the definition of a reactor process per LAC 33:III.2147. DOES NOT APPLY. Analyzer vents are not continuous gas streams, thus do not meet the definition of process vents under 40 CFR 63.101.
EQT 141 (YG, Tank T-410)	LAC 33:III.2115 Waste Gas Disposal 40 CFR 60.110b NSPS, Subpart Kb - Standards of Performance for Storage Vessels for Petroleum Liquids 40 CFR 63.100 and 63.119 (a)(3) NESHAP, Subparts F and G (HON)	EXEMPT. VOC (vent stream) < 3000 ppmv. Exempt as per LAC 33:III.2115.H.1.d. DOES NOT APPLY. Vapor pressure is less than 0.5 psia. Tank's capacity is less than 10,000 gallons. DOES NOT APPLY. The tank does not meet definition of storage vessel under 40 CFR 63.101.Capacity<10,000 gal.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

VINYL II PLANT
DOW CHEMICAL CO - LOUISIANA OPERATIONS, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirements	Notes
EQT 141 (YG, Tank T-410) (Continued)	LAC 33:III.2103. Storage of Volatile Organic Compounds	DOES NOT APPLY. Vapor pressure at storage is less than 1.5 psia conditions. Exempt as per LAC 33:III.2103.B
EQT 142, 143 (YH and YI, Tanks T-460A and T-460B, storm water storage)	40 CFR 60.110b NSPS, Subpart Kb -- Standards of Performance for Storage Vessels for Petroleum Liquids LAC 33:III.2103. Storage of Volatile Organic Compounds	DOES NOT APPLY. Tanks store storm water only. DOES NOT APPLY. Vapor pressure at storage is less than 1.5 psia conditions per LAC 33:III.2103.B
EQT 144 (YJ, Labhoods S-240)	LAC 33:III.2153 Limiting VOC Emissions from Industrial Wastewater 40 CFR 63.100 - 63.110 NESHAP, Subparts F and G (HON)	DOES NOT APPLY. VOC(vent stream) < 1000 ppmv. DOES NOT APPLY. Analyzer vents are not continuous gas streams, thus do not meet the definition of process vents under 40 CFR 63.101.
EQT 135, 136 (MS2 & MS3, PSA Unit Controlling Tanks T-230 & T-261)	LAC 33:III.2115 Waste Gas Disposal 40 CFR 60, Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels 40 CFR 61, Subpart F Emission Standards for vinyl Chloride	EXEMPT. VOC (vent stream) < 3000 ppmv. Exempt as per LAC 33:III.2115.H.1.d. EXEMPT. Overlap with HON. After the compliance dates specified in §63.100 of subpart F of this part, a Group 1 or Group 2 storage vessel that is also subject to the provisions of 40 CFR part 60, subpart Kb is required to comply only with the provisions of this subpart. EXEMPT. Overlap with HON. All process vents and wastewater streams subject to the Vinyl Chloride NESHAP are classified as HON Group 1 streams. Therefore, per 40 CFR 63.110(f), only compliance with 40 CFR 63, Subpart G (HON process vent and wastewater provisions) is required.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

VINYL II PLANT
DOW CHEMICAL CO - LOUISIANA OPERATIONS, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirements	Notes
EQT 134 (MS1, PSA Unit and Controlling Tank T-260)	40 CFR 60.110b NSPS, Subpart Kb - Standards of Performance for Storage Vessels for Petroleum Liquids 40 CFR 61, Subpart F Emission Standards for Vinyl Chloride	DOES NOT APPLY. No construction or modification since July 23, 1984. EXEMPT. All process vents and wastewater streams subject to the Vinyl Chloride NESHAP are classified as HON Group 1 streams. Therefore, per 40 CFR 63.110(f), only compliance with 40 CFR 63, Subpart G (HON process vent and wastewater provisions) is required. DOES NOT APPLY. Capacity is less than 10,000 gallons.
EQT 145 (YL, Filtrate Hold Tank T-510)	40 CFR 60.110b NSPS, Subpart Kb - Standards of Performance for Storage Vessels for Petroleum Liquids 40 CFR 63.100 and 63.133 NESHAP, Subparts F and G (HON) LAC 33:III.2103. Storage of Volatile Organic Compounds LAC 33:III.2153 Limiting VOC Emissions from Industrial Wastewater	DOES NOT APPLY. Does not meet definition of storage vessel under 40 CFR 63.101. Capacity is less than 10,000 gallons. DOES NOT APPLY. Vapor pressure < 1.5 psia per LAC 33:III.2103.B. EXEMPT. A 90% reduction exemption was requested and approved by LDEQ.
EQT 131 (EI, Oil Pots)	LAC 33:III.2115 Waste Gas Disposal	EXEMPT. Waste gas stream with VOC concentration less than 100 lbs in any continuous 24-hour period. LAC 33:III.2115.H.1.c.
EQT 146 (Reactor R-201)	40 CFR 60, Subpart RRR Standards of Performance for Volatile Organic Compound Emissions From SOCMR Reactor Processes	DOES NOT APPLY. Reactor was not constructed, reconstructed or modified since June 29, 1990.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

VINYL II PLANT
DOW CHEMICAL CO - LOUISIANA OPERATIONS, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirements	Notes
EQT 154 - 156, 176 (Tanks: T-225, T-220-1, T-221-1, and T-400-2)	40 CFR 60, Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels	EXEMPT. Overlap with HON. After the compliance dates specified in §63.100 of subpart F of this part, a Group 1 or Group 2 storage vessel that is also subject to the provisions of 40 CFR part 60, subpart Kb is required to comply only with the provisions of this subpart.
EQT 149-152, 163, 164 Distillation Columns (C-100-1, C- 220-2, C-220-3, C-230, C-235, C-250, and C-2550	40 CFR 61.65 NESHAP, Subpart F Standards for Vinyl Chloride Plants	EXEMPT. The concentration of VCM in the exhaust does not exceed 10 ppm (average over 3 hour period) as per the requirements of 40 CFR 61, 62, and 61.63.
EQT 150, 151 Distillation Columns (C-220-2 and C-220-3)	LAC 33:III.2147 Limiting VOC Emissions from SOCOMI Reactor Processes and Distillation Operations	EXEMPT. Complies with the more stringent HON requirements.
EQT 170, 171, 173, 174, 175, 151, 158, 159, 172, 153, 168, 169 Tanks T-120, T-130, T-160, T-161, T- 162, T-223-3, T-225, T-240, and T- 420-2 Drums D-541, D-111, and D-165	LAC 33:III.2153 Limiting VOC Emissions from Industrial Wastewater	EXEMPT. The sources are already regulated under HON wastewater provisions.
EQT 162, 165-167 Distillation Columns (C-235, C-260, C-270 and C-140)	40 CFR 60.660 NSPS, Subpart NNN - VOC Emissions from the SOCMI Distillation Operations	EXEMPT. Overlap with HON. After the compliance dates specified in §63.100 of subpart F of this part, a Group 1 or Group 2 storage vessel that is also subject to the provisions of 40 CFR part 60, subpart Kb is required to comply only with the provisions of this subpart. DOES NOT APPLY. Columns were not constructed, modified, or reconstructed commenced after December 30, 1983.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

VINYL II PLANT
DOW CHEMICAL CO - LOUISIANA OPERATIONS, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirements	Notes
EQT 162, 165-167 Distillation Columns (C-235, C-260, C-270 and C-140) (Continued)	LAC 33:III.2147 Limiting VOC Emissions from SOCM I Reactor Processes and Distillation Operations	EXEMPT. Complies with the more stringent HON requirements.
EQT 139 YD (Surface Impoundment Pit)	LAC 33:III.2153 Limiting VOC Emissions from Industrial Wastewater	EXEMPT. A 90% reduction exemption was requested and approved by LDEQ.
ARE 4 DE (Equipment Openings)	40 CFR 63 Subpart F – SOCM I HON	DOES NOT APPLY. Equipment opening emissions are non-continuous maintenance vents that are not process vents
	40 CFR 63, Subpart G – SOCM I HON	DOES NOT APPLY. Equipment opening emissions are non-continuous maintenance vents that are not process vents
	40 CFR 63, Subpart H - National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks	DOES NOT APPLY. Equipment opening emissions are non-continuous maintenance vents that are not process vents

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

Specific Conditions

1. Permittee shall comply with streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the applicable fugitive in the following table. Noncompliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emission programs .
 - a. Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (40 CFR 63, Subpart H-HON) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined.
 - b. Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters. Some allowance may be made in the first year of the streamlined program in order to allow for transition from existing monitoring schedules.
 - c. Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on July 30 and January 30, to cover the periods January 1 through June 30 and July 1 through December 31, respectively. The semiannual reports shall include any monitoring performed within the reporting period.
 - d. The streamlined program shall not be used to replace the continuous monitoring requirements of 40 CFR 61.65(b)(8)(ii) or 61.68.

Unit or Plant Site	Program Being Streamlined	Stream Applicability	Overall Most Stringent Program
Vinyl II Plant-Dow	40 CFR 63, Subpart H – HON	5% VOHAP	40 CFR 63, Subpart H – HON
	40 CFR 61, Subpart F – National Emission Standards for Vinyl Chloride	10% vinyl chloride	
	40 CFR 61, Subpart V - National Emission Standards for Equipment Leaks	10% VHAP	
	40 CFR 60, Subparts VV – NSPS for Equipment Leaks of VOC in SOCOMI or Refineries	10% VOC	
	LAC 33:III.2122 – Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parish	10% VOC	
	LAC 33:III.5109 – Louisiana MACT Determination for Non-HON Sources	5% Class I and Class II TAP	

40 CFR PART 70 GENERAL CONDITIONS

The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]

- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 - 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 - 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 - 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

40 CFR PART 70 GENERAL CONDITIONS

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an

40 CFR PART 70 GENERAL CONDITIONS

emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

40 CFR PART 70 GENERAL CONDITIONS

3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

40 CFR PART 70 GENERAL CONDITIONS

- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated October 19, 2004, along with supplemental information dated September 2, 2005.
- IV. This permit shall become invalid, for the sources not constructed, if:
- A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.
- The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
- This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 - 1. Report by June 30 to cover January through March
 - 2. Report by September 30 to cover April through June
 - 3. Report by December 31 to cover July through September
 - 4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
- B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
- D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 1409 Dow Chemical Co - Louisiana Division
Activity Number: PER20040070
Permit Number: 2665-V7
Air - Title V Regular Permit Renewal

ID	Name	User Group	Start Date
1280-00008	Dow Chemical Co - Louisiana Division	CDS Number	05-27-1993
1280-0008	Dow Chemical Co - Louisiana Division	Emission Inventory	03-03-2004
38-1285128	Federal Tax ID	Federal Tax ID	11-21-1999
LAD008187080	Dow Chemical Co LA Operations	Hazardous Waste Notification	01-29-1986
PMT/CA	GPRA Baselines	Hazardous Waste Permitting	10-01-1997
00290	Dow Chemical	Inactive & Abandoned Sites	09-01-1986
LAD008187080	Dow Chemical USA	Inactive & Abandoned Sites	06-09-1981
LA0003301	LPDES #	LPDES Permit #	05-27-1993
LAR05N128	LPDES #	LPDES Permit #	10-24-2001
LAR10B702	LPDES #	LPDES Permit #	03-24-2003
LAR10C623	LPDES #	LPDES Permit #	10-28-2004
LAR10D056	LPDES #	LPDES Permit #	06-13-2005
LAR10D101	LPDES #	LPDES Permit #	08-23-2005
GP1596	LWDPS #	LWDPS Permit #	11-21-1999
WP1561	LWDPS #	LWDPS Permit #	06-25-2003
WP1654	LWDPS #	LWDPS Permit #	06-25-2003
LA-2002-L02	Radioactive Material License	Radiation License Number	03-12-2001
2002	X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
GPD-047-0107	Site ID #	Solid Waste Facility No.	04-30-2001
1280A0002	Stage II Vapor Recovery	Stage II Vapor Recovery	08-19-2002
11649	Dow Chemical USA	TEMPO Merge	05-22-2001
126305	Dow Chemical Co - Vinyl II Cooling Tower	TEMPO Merge	12-19-2005
19794	Dow Chemical USA - LA Division New Tank Farm	TEMPO Merge	07-01-2001
38771	Dow Chemical Co - LA Operations	TEMPO Merge	05-22-2001
41283	Dow Chemical Co	TEMPO Merge	05-22-2001
44749	Dow Lighthouse Rd	TEMPO Merge	08-25-2002
44946	Dow Chemical USA	TEMPO Merge	05-22-2001
52295	Dow Chemical USA - Coal Gasification	TEMPO Merge	05-22-2001
1280-0008	Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
70765THDWCHIGHW	TRI #	Toxic Release Inventory	07-08-2004
24-011629	UST Facility ID (from UST legacy data)	Underground Storage Tanks	10-11-2002

Physical Location: 21255 Hwy 1
 Plaquemine, LA 70765

Main Phone: 2253536148

General Information

AI ID: 1409 Dow Chemical Co - Louisiana Division
Activity Number: PER20040070
Permit Number: 2665-V7
Air - Title V Regular Permit Renewal

Mailing Address:
 PO Box 150
 Plaquemine, LA 707650150

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Dennis Davis	PO Box 150 Plaquemine, LA 707650150	2253536128 (WP)	Solid Waste Billing Party for
Dennis Davis	PO Box 150 Plaquemine, LA 707650150	2253536128 (WP)	Water Billing Party for
Dennis Davis	PO Box 150 Plaquemine, LA 707650150	2253536128 (WP)	Stage II Vapor Recovery Billing Party for
Dennis Davis	PO Box 150 Plaquemine, LA 707650150	2253536128 (WP)	Accident Prevention Billing Party for
Dan Jason	PO Box 150 Plaquemine, LA 707650150	2253631512 (WP)	Responsible Official for
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	2253536146 (WP)	Radiation Safety Officer for
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	2253538001 (WF)	Radiation Safety Officer for
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	BRABALAIS@DOW.	Radiation Safety Officer for
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	2253226146 (DP)	Radiation Safety Officer for
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	2253536146 (WP)	Radiation Contact For
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	2253538001 (WF)	Radiation Contact For
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	BRABALAIS@DOW.	Radiation Contact For
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	2253226146 (DP)	Radiation Contact For

Related Organizations:

Name	Address	Phone (Type)	Relationship
Dow Chemical Co	PO Box 150 Plaquemine, LA 707650150		Owns
Dow Chemical Co	PO Box 150 Plaquemine, LA 707650150		Air Billing Party for
Dow Chemical Co	PO Box 150 Plaquemine, LA 707650150		Radiation Registration Billing Party for
Dow Chemical Co	PO Box 150 Plaquemine, LA 707650150		Radiation License Billing Party for
Dow Chemical Co	PO Box 150 Plaquemine, LA 707650150		Owns
JE Merit Constructors Inc	4949 Essen Ln Baton Rouge, LA 70898	2257685548 (WP)	Provides environmental services for
National Maintenance Corp	2865 Mason St Baton Rouge, LA 70865		Provides environmental services for
Petrin Corp	1405 Commerical Dr Port Allen, LA 70767		Provides environmental services for

SIC Codes:
 2812, Alkalies and chlorine
 2821, Plastics materials and resins
 2869, Industrial organic chemicals, nec

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
Activity Number: PER20040070
Permit Number: 2665-V7
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
ARE004	Equipment Openings EIQ DZ					8760 hr/yr (All Year)
EQT123	Flare EIQ 83		.2 MM BTU/hr		Natural Gas	8760 hr/yr (All Year)
EQT124	Vent Condenser T-585 EIQ 9Z1	16919 gallons				8760 hr/yr (All Year)
EQT126	Furnace F-101 EIQ 77		75.3 MM BTU/hr	60.2 MM BTU/hr	Natural Gas	8760 hr/yr (All Year)
EQT127	Furnace F-102 EIQ 78		75.3 MM BTU/hr	60.2 MM BTU/hr		8760 hr/yr (All Year)
EQT128	Furnace F-110 EIQ 79		58 MM BTU/hr	46 MM BTU/hr		8760 hr/yr (All Year)
EQT129	Furnace F-103 EIQ 81		75.3 MM BTU/hr	60.2 MM BTU/hr		8760 hr/yr (All Year)
EQT130	Furnace F-104 EIQ 82		75.3 MM BTU/hr	60.2 MM BTU/hr	Natural Gas	8760 hr/yr (All Year)
EQT131	Oil Pots EIQ EI	59 gallons				8760 hr/yr (All Year)
EQT132	Furnace F-105 EIQ HV		71.8 MM BTU/hr	57.4 MM BTU/hr		8760 hr/yr (All Year)
EQT133	Furnace F-106 EIQ LD		124.8 MM BTU/hr	122.8 MM BTU/hr		8760 hr/yr (All Year)
EQT134	Storage Tank T-260 EIQ MS1	676800 gallons		24.37 MM gallons/yr		8760 hr/yr (All Year)
EQT135	Storage Tank T-261 EIQ MS2	676800 gallons		24.37 MM gallons/yr		8760 hr/yr (All Year)
EQT136	Storage Tank T-230 EIQ MS3	676800 gallons		12.18 gallons/yr		8760 hr/yr (All Year)
EQT137	Scrubber Vent (C-431) EIQ YA		120 MM lbs/yr	13000 lb/hr	HCl	8760 hr/yr (All Year)
EQT138	Cooling Tower EIQ YC		40000 gallons/min	40000 gallons/min		8760 hr/yr (All Year)
EQT139	Surface Impoundment Sump 430 EIQ YD		47 gallons/min	47 gallons/min		8760 hr/yr (All Year)
EQT140	Analyzer Vents EIQ YF					8760 hr/yr (All Year)
EQT141	Tank T-410 EIQ YG	376 gallons		9024 gallons/yr		8760 hr/yr (All Year)
EQT142	Tank T-460A EIQ YH	1.06 million gallons		24.7 MM gallons/yr		8760 hr/yr (All Year)
EQT143	Tank T-460B EIQ YI	1.06 million gallons		24.7 MM gallons/yr		8760 hr/yr (All Year)
EQT144	Laboratory Hoods S-240 EIQ YJ					8760 hr/yr (All Year)
EQT145	Tank T-510 (Filtrate Hold Tank) EIQ YL	3800 gallons		693500 gallons/yr		8760 hr/yr (All Year)
EQT146	Reactor R-201					8760 hr/yr (All Year)
EQT147	Reactor R-202A					8760 hr/yr (All Year)
EQT148	Reactor R-202B					8760 hr/yr (All Year)
EQT149	Distillation Column C-100-1					8760 hr/yr (All Year)
EQT150	Distillation Column C-220-2					8760 hr/yr (All Year)
EQT151	Distillation Column C-220-3					8760 hr/yr (All Year)
EQT152	Distillation Column C-230					8760 hr/yr (All Year)
EQT153	Drum D-541					8760 hr/yr (All Year)
EQT154	Drum D-225					8760 hr/yr (All Year)
EQT155	Tank T-220-1					8760 hr/yr (All Year)
EQT156	Tank T-221-1					8760 hr/yr (All Year)
EQT158	Tank T-225					8760 hr/yr (All Year)
EQT159	Tank T-240					8760 hr/yr (All Year)
EQT162	Distillation Column C-235					8760 hr/yr (All Year)

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
Activity Number: PER20040070
Permit Number: 2665-V7
Air - Title V Regular Permit Renewal

Subject Item Inventory:						
ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT163	Distillation Column C-250					8760 hr/yr (All Year)
EQT164	Distillation Column C-255					8760 hr/yr (All Year)
EQT165	Distillation Column C-260					8760 hr/yr (All Year)
EQT166	Distillation Column C-270					8760 hr/yr (All Year)
EQT167	Distillation Column C-140					8760 hr/yr (All Year)
EQT168	Drum D-111					8760 hr/yr (All Year)
EQT169	Drum D-165					8760 hr/yr (All Year)
EQT170	Tank T-120					8760 hr/yr (All Year)
EQT171	Tank T-130					8760 hr/yr (All Year)
EQT172	Tank T-420-2					8760 hr/yr (All Year)
EQT173	Tank T-160					8760 hr/yr (All Year)
EQT174	Tank T-161					8760 hr/yr (All Year)
EQT175	Tank T-162					8760 hr/yr (All Year)
EQT176	Tank T-400-2					8760 hr/yr (All Year)
EQT177	VCM Tank Car Loading					8760 hr/yr (All Year)
EQT178	VCM Ship Loading					8760 hr/yr (All Year)
EQT179	Pressure Swing Adsorption Unit					8760 hr/yr (All Year)
EQT178	75 - Boiler F-410 (Permit No. 2285-V2)		40.2 MM BTU/hr	40.2 MM BTU/hr		8760 hr/yr (All Year)
EQT179	76 - Boiler F-420 (Permit No. 2285-V2)		40.2 MM BTU/hr	40.2 MM BTU/hr		8760 hr/yr (All Year)
EQT1839	Furnace Decoke Operation EIQ YB		12 (other units)	18 (other units)	18 events/year; 12 hours/event	216 hr/yr (All Year)
FUG007	Fugitives EIQ DW					8760 hr/yr (All Year)
RLP103	Waste stream from C-220-2 & C-220-3					8760 hr/yr (All Year)

Subject Item Groups:		Included Components (from Above)
ID	Description	
GRP021	PSA Unit Controlling Tanks	EQT134 Storage Tank T-260 EIQ MS1
GRP021	PSA Unit Controlling Tanks	EQT135 Storage Tank T-261 EIQ MS2
GRP021	PSA Unit Controlling Tanks	EQT136 Storage Tank T-230 EIQ MS3
GRP039	Stormwater Tanks	EQT142 Tank T-460A EIQ YH
GRP039	Stormwater Tanks	EQT143 Tank T-460B EIQ YI
GRP040	Furnaces	EQT126 Furnace F-101 EIQ 77
GRP040	Furnaces	EQT127 Furnace F-102 EIQ 78
GRP040	Furnaces	EQT129 Furnace F-103 EIQ 81
GRP040	Furnaces	EQT130 Furnace F-104 EIQ 82
GRP040	Furnaces	EQT132 Furnace F-105 EIQ HV
GRP128	VINYL II PLANT	ARE4 Equipment Openings EIQ DZ

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040070
 Permit Number: 2665-V7
 Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP128	VINYL II PLANT	EQT123 Flare EI Q 83
GRP128	VINYL II PLANT	EQT124 Vent Condenser T-585 EI Q 9Z1
GRP128	VINYL II PLANT	EQT126 Furnace F-101 EI Q 77
GRP128	VINYL II PLANT	EQT127 Furnace F-102 EI Q 78
GRP128	VINYL II PLANT	EQT128 Furnace F-110 EI Q 79
GRP128	VINYL II PLANT	EQT129 Furnace F-103 EI Q 81
GRP128	VINYL II PLANT	EQT130 Furnace F-104 EI Q 82
GRP128	VINYL II PLANT	EQT131 Oil Pots EI Q EI
GRP128	VINYL II PLANT	EQT132 Furnace F-105 EI Q HV
GRP128	VINYL II PLANT	EQT133 Furnace F-106 EI Q LD
GRP128	VINYL II PLANT	EQT134 Storage Tank T-260 EI Q MS1
GRP128	VINYL II PLANT	EQT135 Storage Tank T-261 EI Q MS2
GRP128	VINYL II PLANT	EQT136 Storage Tank T-230 EI Q MS3
GRP128	VINYL II PLANT	EQT137 Scrubber Vent (C-431) EI Q YA
GRP128	VINYL II PLANT	EQT138 Cooling Tower EI Q YC
GRP128	VINYL II PLANT	EQT139 Surface Impoundment Sump 430 EI Q YD
GRP128	VINYL II PLANT	EQT140 Analyzer Vents EI Q YF
GRP128	VINYL II PLANT	EQT141 Tank T-410 EI Q YG
GRP128	VINYL II PLANT	EQT142 Tank T-460A EI Q YH
GRP128	VINYL II PLANT	EQT143 Tank T-460B EI Q YI
GRP128	VINYL II PLANT	EQT144 Laboratory Hoods S-240 EI Q YJ
GRP128	VINYL II PLANT	EQT145 Tank T-510 (Filtrate Hold Tank) EI Q YL
GRP128	VINYL II PLANT	EQT146 Reactor R-201
GRP128	VINYL II PLANT	EQT147 Reactor R-202A
GRP128	VINYL II PLANT	EQT148 Reactor R-202B
GRP128	VINYL II PLANT	EQT149 Distillation Column C-100-1
GRP128	VINYL II PLANT	EQT150 Distillation Column C-220-2
GRP128	VINYL II PLANT	EQT151 Distillation Column C-220-3
GRP128	VINYL II PLANT	EQT152 Distillation Column C-230
GRP128	VINYL II PLANT	EQT153 Drum D-541
GRP128	VINYL II PLANT	EQT154 Drum D-225
GRP128	VINYL II PLANT	EQT155 Tank T-220-1
GRP128	VINYL II PLANT	EQT156 Tank T-221-1
GRP128	VINYL II PLANT	EQT158 Tank T-225
GRP128	VINYL II PLANT	EQT159 Tank T-240
GRP128	VINYL II PLANT	EQT162 Distillation Column C-235
GRP128	VINYL II PLANT	EQT163 Distillation Column C-250

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040070
 Permit Number: 2665-V7
 Air - Title V Regular Permit Renewal

Subject Item Groups:		ID	Description	Included Components (from Above)
GRP128	VINYL II PLANT			EQT164 Distillation Column C-255
GRP128	VINYL II PLANT			EQT165 Distillation Column C-260
GRP128	VINYL II PLANT			EQT166 Distillation Column C-270
GRP128	VINYL II PLANT			EQT167 Distillation Column C-140
GRP128	VINYL II PLANT			EQT168 Drum D-111
GRP128	VINYL II PLANT			EQT169 Drum D-165
GRP128	VINYL II PLANT			EQT170 Tank T-120
GRP128	VINYL II PLANT			EQT171 Tank T-130
GRP128	VINYL II PLANT			EQT172 Tank T-420-2
GRP128	VINYL II PLANT			EQT173 Tank T-160
GRP128	VINYL II PLANT			EQT174 Tank T-161
GRP128	VINYL II PLANT			EQT175 Tank T-162
GRP128	VINYL II PLANT			EQT176 Tank T-400-2
GRP128	VINYL II PLANT			EQT177 VCM Tank Car Loading
GRP128	VINYL II PLANT			EQT178 VCM Ship Loading
GRP128	VINYL II PLANT			EQT179 Pressure Swing Adsorption Unit
GRP128	VINYL II PLANT			EQT839 Furnace Decoke Operation EIQ YB
GRP128	VINYL II PLANT			FUG7 Fugitives EIQ DW
GRP128	VINYL II PLANT			RLP103 Waste stream from C-220-2 & C-220-3
GRP131	Drums and Tanks			EQT153 Drum D-541
GRP131	Drums and Tanks			EQT158 Tank T-225
GRP131	Drums and Tanks			EQT159 Tank T-240
GRP131	Drums and Tanks			EQT168 Drum D-111
GRP131	Drums and Tanks			EQT169 Drum D-165
GRP131	Drums and Tanks			EQT170 Tank T-120
GRP131	Drums and Tanks			EQT171 Tank T-130
GRP131	Drums and Tanks			EQT172 Tank T-420-2
GRP131	Drums and Tanks			EQT173 Tank T-160
GRP131	Drums and Tanks			EQT174 Tank T-161
GRP131	Drums and Tanks			EQT175 Tank T-162
GRP132	Tanks			EQT155 Tank T-220-1
GRP132	Tanks			EQT156 Tank T-221-1
GRP132	Tanks			EQT176 Tank T-400-2
GRP133	Non-NSPS Distillation Columns			EQT162 Distillation Column C-235
GRP133	Non-NSPS Distillation Columns			EQT165 Distillation Column C-260
GRP133	Non-NSPS Distillation Columns			EQT166 Distillation Column C-270
GRP133	Non-NSPS Distillation Columns			EQT167 Distillation Column C-140

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040070
 Permit Number: 2665-V7
 Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP134	NSPS Distillation Columns	EQT149 Distillation Column C-100-1
GRP134	NSPS Distillation Columns	EQT150 Distillation Column C-220-2
GRP134	NSPS Distillation Columns	EQT151 Distillation Column C-220-3
GRP134	NSPS Distillation Columns	EQT152 Distillation Column C-230
GRP134	NSPS Distillation Columns	EQT163 Distillation Column C-250
GRP134	NSPS Distillation Columns	EQT164 Distillation Column C-255
GRP135	Reactors	EQT147 Reactor R-202A
GRP135	Reactors	EQT148 Reactor R-202B
GRP150	VCM Ship/Tank Car Loading	EQT177 VCM Tank Car Loading
GRP150	VCM Ship/Tank Car Loading	EQT178 VCM Ship Loading

Relationships:

Subject Item	Relationship	Subject Item
EQT134 Storage Tank T-260 EIQ MS1	Controlled by	EQT179 Pressure Swing Adsorption Unit
EQT135 Storage Tank T-281 EIQ MS2	Controlled by	EQT179 Pressure Swing Adsorption Unit
EQT136 Storage Tank T-230 EIQ MS3	Controlled by	EQT179 Pressure Swing Adsorption Unit
EQT146 Reactor R-201	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT146 Reactor R-201	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT147 Reactor R-202A	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT147 Reactor R-202A	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT148 Reactor R-202B	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT148 Reactor R-202B	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT149 Distillation Column C-100-1	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT149 Distillation Column C-100-1	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT150 Distillation Column C-220-2	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT150 Distillation Column C-220-2	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT151 Distillation Column C-220-3	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT151 Distillation Column C-220-3	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT152 Distillation Column C-230	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT152 Distillation Column C-230	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT153 Drum D-541	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT153 Drum D-541	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT154 Drum D-225	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT154 Drum D-225	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT155 Tank T-220-1	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT155 Tank T-220-1	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT156 Tank T-221-1	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT156 Tank T-221-1	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

Relationships:

Subject Item	Relationship	Subject Item
EQT156 Tank T-221-1	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT158 Tank T-225	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT158 Tank T-225	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT159 Tank T-240	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT159 Tank T-240	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT162 Distillation Column C-235	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT162 Distillation Column C-235	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT163 Distillation Column C-250	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT163 Distillation Column C-250	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT164 Distillation Column C-255	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT164 Distillation Column C-255	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT165 Distillation Column C-260	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT165 Distillation Column C-260	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT166 Distillation Column C-270	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT166 Distillation Column C-270	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT167 Distillation Column C-140	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT167 Distillation Column C-140	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT168 Drum D-111	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT168 Drum D-111	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT169 Drum D-165	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT169 Drum D-165	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT170 Tank T-120	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT170 Tank T-120	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT171 Tank T-130	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT171 Tank T-130	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT172 Tank T-420-2	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT172 Tank T-420-2	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT173 Tank T-160	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT173 Tank T-160	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT174 Tank T-161	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT174 Tank T-161	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT175 Tank T-162	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT175 Tank T-162	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT176 Tank T-400-2	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT176 Tank T-400-2	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)
EQT177 VCM Tank Car Loading	Controlled by	EQT178 75 - Boiler F-410 (Permit No. 2285-V2)
EQT177 VCM Tank Car Loading	Controlled by	EQT179 76 - Boiler F-420 (Permit No. 2285-V2)

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040070
 Permit Number: 2665-V7
 Air - Title V Regular Permit Renewal

Relationships:

Subject Item	Relationship	Subject Item
EQT178 VCM Ship Loading	Controlled by	EQT718 75 - Boiler F-410 (Permit No. 2285-V2)
EQT178 VCM Ship Loading	Controlled by	EQT719 76 - Boiler F-420 (Permit No. 2285-V2)

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT123	11.9		2.3	4.15	123	1000
EQT124			3	.07	20	77
EQT126	53.8	27606	3.3	8.5	54	482
EQT127	53.8	27606	3.3	8.5	54	482
EQT128	21	23960	4	12.56	141	700
EQT129	53.8	27606	3.3	.87	54	482
EQT130	53.8	27606	3.3	8.5	54	482
EQT131		.1	1	.79	5	100
EQT132	54.3	26165	3.2	8.04	113	290
EQT133	48.3	36402	4	12.56	123	302
EQT134	3.6	96	.8	.5	40	149
EQT135	3.6	96	.8	.5	40	149
EQT136	3.6	96	.8	.5	40	149
EQT137	.01	1	1	3.1	35	77
EQT138		4	103	8328	60	104
EQT139			68	3629.8		77
EQT140		.6	.1	.01	10	212
EQT141		.1	1	.79	4	77
EQT142			75	4415.6	32	77
EQT143			75	4415.6	32	77
EQT144		.1	1	.79	15	77
EQT145						85
EQT718	70.4	13264	2		85	106
EQT719	70.4	13264	2		85	106
EQT839			.83		19	77

Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
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EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040070
 Permit Number: 2665-V7
 Air - Title V Regular Permit Renewal

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 004 DZ													0.73	266.18	3.19
EQT 123 83	0.16	0.55	0.69	0.03	1.03	0.13	1.37	4.74	6.00	6.98	24.14	30.56	0.13	46.74	0.60
EQT 124 921													0.057	0.14	0.25
EQT 126 77	0.45	0.56	1.96	0.086	1.08	0.38	5.54	6.93	24.27	2.03	8.44	8.87	0.33	0.41	1.42
EQT 127 78	0.45	0.56	1.96	0.086	1.08	0.38	5.54	6.93	24.27	2.03	8.44	8.87	0.33	0.41	1.42
EQT 128 79	0.34	0.43	1.50	0.066	0.83	0.29	4.21	5.31	18.45	2.03	5.67	8.87	0.25	0.31	1.09
EQT 129 81	0.45	0.56	1.96	0.086	1.08	0.38	5.54	6.93	24.27	2.03	8.44	8.87	0.33	0.41	1.42
EQT 130 82	0.45	0.56	1.96	0.086	1.08	0.38	5.54	6.93	24.27	2.03	8.44	8.87	0.33	0.41	1.42
EQT 131 EI													0.17	0.21	0.75
EQT 132 HV	0.43	0.54	1.87	0.082	1.03	0.36	4.27	5.34	18.70	2.12	8.84	9.29	0.31	0.39	1.36
EQT 133 LD	0.92	0.93	4.01	0.18	1.78	0.77	8.74	8.88	38.28	4.96	16.79	21.70	0.66	0.67	2.90
EQT 134 MS1													0.20	0.25	0.90
EQT 135 MS2													0.20	0.25	0.90
EQT 136 MS3													0.11	0.14	0.49
EQT 137 YA													16.46	300.00	72.08
EQT 138 YC	2.59	3.11	11.36										< 0.001	< 0.001	< 0.01
EQT 139 YD													0.33	2.56	1.40
EQT 140 YF										1.37	1.65	6.01	1.40	1.68	6.13

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040070
 Permit Number: 2665-V7
 Air - Title V Regular Permit Renewal

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 141 YG													< 0.001	< 0.001	< 0.01
EQT 142 YH													0.48	0.82	2.12
EQT 143 YI													0.48	0.82	2.12
EQT 144 YJ													0.18	3.11	0.77
EQT 145 YL													0.002	0.002	0.01
EQT 839 YB	0.054	8.98	0.24										0.005	0.20	0.02
FUG 007 DW													4.28	5.13	18.72

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 27.51 tons/yr
 SO2: 3.07 tons/yr
 NOx: 178.51 tons/yr
 CO: 111.91 tons/yr
 VOC: 121.47 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

All phases

Subject Item	1,1,1-Trichloroethane			1,1,2,2-Tetrachloroethane			1,1,2-Trichloroethane			1,1-Dichloroethane			1,2-Dichloroethane		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 004	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01
DZ															
EQT 123	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	0.012	4.46	0.05
83															
EQT 124															
921															
EQT 131															
EI															
EQT 134				< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	0.20	0.24	0.89
MS1															
EQT 135				< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	0.20	0.24	0.89
MS2															
EQT 136				< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	0.11	0.13	0.49
MS3															
EQT 137															
YA															
EQT 138															
YC															
EQT 139	0.01	0.74	0.03				0.01	0.74	0.03	0.01	0.74	0.03	0.22	0.25	0.97
YD													0.20	0.24	0.88
EQT 140													< 0.001	< 0.001	< 0.01
YF															
EQT 141				< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01
YG															
EQT 142	0.01	0.10	0.05				0.01	0.10	0.05	0.01	0.10	0.05	0.34	0.39	1.47
YH															
EQT 143	0.01	0.10	0.05				0.01	0.10	0.05	0.01	0.10	0.05	0.34	0.39	1.47
YI															
EQT 144				< 0.001	0.42	< 0.01	< 0.001	0.002	0.35	< 0.01	0.35	< 0.01	0.006	0.33	0.03
YJ															
EQT 145													< 0.001	< 0.001	< 0.01
YL															
EQT 839													0.005	0.20	0.02
YB															
FUG 007				0.049	0.059	0.214	0.11	0.13	0.48	0.11	0.13	0.48	2.04	2.44	8.92
DW															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

All phases

Subject Item	1,2-Dichloropropane			1,3-Butadiene			1,4-Dichlorobenzene			2,2'-dichlorodithylether			Acetaldehyde		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 004 DZ	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01
EQT 123 83	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01
EQT 124 921															
EQT 131 EI															
EQT 134 MS1															
EQT 135 MS2															
EQT 136 MS3															
EQT 137 YA															
EQT 138 YC															
EQT 139 YD															
EQT 140 YF															
EQT 141 YG															
EQT 142 YH															
EQT 143 YI															
EQT 144 YJ															
EQT 145 YL															
EQT 839 YB															
FUG 007 DW															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040070
 Permit Number: 2665-V7
 Air - Title V Regular Permit Renewal

All phases

Subject Item	Benzene			Carbon tetrachloride			Chlorine			Chlorobenzene			Chloroethane		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 004	< 0.001	< 0.001	< 0.01	0.10	36.79	0.44	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01
DZ															
EQT 123	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01
83															
EQT 124				0.057	0.14	0.25									
921															
EQT 131															
EI															
EQT 134	0.001	0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01
MS1															
EQT 135	0.001	0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01
MS2															
EQT 136	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01
MS3															
EQT 137							0.23	2.28	1.00						
YA															
EQT 138							0.13	0.15	0.55						
YC															
EQT 139															
YD															
EQT 140				0.002	0.002	0.01							0.13	0.15	0.55
YF															
EQT 141				< 0.001	< 0.001	< 0.01									
YG															
EQT 142															
YH															
EQT 143															
YI															
EQT 144	< 0.001	< 0.001	< 0.01												
YJ															
EQT 145															
YL															
EQT 839															
YB															
FUG 007				0.043	0.052	0.19	0.10	0.10	0.50	0.10	0.10	0.50	0.046	0.055	0.20
DW															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040070
 Permit Number: 2665-V7
 Air - Title V Regular Permit Renewal

All phases

Subject Item	Chloroform			Chloroprene			Ethylene			Ethylene glycol			Hexachloroethane		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 004 DZ	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01
EQT 123 83	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	0.020	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01
EQT 124 9Z1															
EQT 131 E1															
EQT 134 MS1	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01									
EQT 135 MS2	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01									
EQT 136 MS3															
EQT 137 YA							0.53	24.00	2.33						
EQT 138 YC	< 0.001	< 0.001	< 0.01												
EQT 139 YD															
EQT 140 YF	0.23	0.28	1.02				0.82	0.99	3.61						
EQT 141 YG	< 0.001	< 0.001	< 0.01												
EQT 142 YH															
EQT 143 YI															
EQT 144 YJ															
EQT 145 YL															
EQT 839 YB															
FUG 007 DW	0.062	0.075	0.27				0.19	0.22	0.81						

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040070
 Permit Number: 2665-V7
 Air - Title V Regular Permit Renewal

All phases

Subject Item	Hydrochloric acid			Methanol			Methyl chloride			Naphthalene			Propylene		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 004	< 0.001	0.011	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.01	0.002	0.63	< 0.01
DZ															
EQT 123	0.009	3.44	0.04	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.01	0.11	41.67	0.50
B3															
EQT 124															
9Z1															
EQT 131															
EI															
EQT 134	< 0.001	< 0.001	< 0.01												
MS1															
EQT 135	< 0.001	< 0.001	< 0.01												
MS2															
EQT 136	< 0.001	< 0.001	< 0.01												
MS3															
EQT 137	1.29	12.00	5.65				0.023	< 0.002	0.01						
YA															
EQT 138															
YC															
EQT 139															
YD															
EQT 140															
YF															
EQT 141															
YG															
EQT 142															
YH															
EQT 143															
YI															
EQT 144															
YJ															
EQT 145															
YL															
EQT 839															
YB															
FUG 007	0.80	0.80	3.60										0.95	1.14	4.16
DW															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040070
 Permit Number: 2665-V7
 Air - Title V Regular Permit Renewal

All phases

Subject Item	Styrene			Tetrachloroethylene			Trichloroethylene			Vinyl chloride			Vinylidene chloride		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 004 DZ	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.01	0.10	36.70	0.44	< 0.001	< 0.001	< 0.01
EQT 123 83	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	0.23	< 0.01	< 0.001	< 0.001	< 0.01
EQT 124 9Z1															
EQT 131 E1															
EQT 134 MS1				< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01
EQT 135 MS2				< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01
EQT 136 MS3							< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.01
EQT 137 YA															
EQT 138 YC															
EQT 139 YD				0.01	0.74	0.03	0.01	0.74	0.03						
EQT 140 YF										0.013	0.016	0.06			
EQT 141 YG															
EQT 142 YH				0.01	0.10	0.05	0.01	0.10	0.05						
EQT 143 YI				0.01	0.10	0.05	0.01	0.10	0.05						
EQT 144 YJ				< 0.001	0.43	< 0.01				0.17	2.01	0.73			
EQT 145 YL															
EQT 839 YB															
FLUG 007 DW							0.84	1.01	3.68						

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

All phases

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

1,1,1-Trichloroethane: 0.13 tons/yr
1,1,2,2-Tetrachloroethane: <0.01 tons/yr
1,1,2-Trichloroethane: 0.214 tons/yr
1,1-Dichloroethane: 0.61 tons/yr
1,2-Dichloroethane: 17.78 tons/yr
1,2-Dichloropropane: <0.01 tons/yr
1,3-Butadiene: <0.01 tons/yr
1,4-Dichlorobenzene: <0.01 tons/yr
2,2'-dichlorodiethylether: <0.01 tons/yr
Acetaldehyde: <0.01 tons/yr
Benzene: <0.01 tons/yr
Carbon tetrachloride: 0.89 tons/yr
Chlorine: 2.05 tons/yr
Chlorobenzene: <0.01 tons/yr
Chloroethane: 0.75 tons/yr
Chloroform: 1.29 tons/yr
Chloroprene: <0.01 tons/yr
Ethylene glycol: <0.01 tons/yr
Ethylene: 6.75 tons/yr
Hexachloroethane: <0.01 tons/yr
Hydrochloric acid: 9.29 tons/yr
Methanol: <0.01 tons/yr
Methyl chloride: 0.01 tons/yr
Naphthalene: <0.01 tons/yr
Propylene: 5.41 tons/yr
Styrene: <0.01 tons/yr
Tetrachloroethylene: <0.01 tons/yr
Trichloroethylene: 0.13 tons/yr
Vinyl chloride: 4.91 tons/yr
Vinylidene chloride: <0.01 tons/yr

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

All phases

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

ARE004 Equipment Openings EIQ DZ

- 1 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with the requirements of 40 CFR 61 Subpart F. Determined to be MACT. [LAC 33:III.5109.A]
- 2 Vinyl chloride \leq 2 percent of the equipment's containment volume, or vinyl chloride \leq 0.0950 cubic meters (25 gallons), whichever is larger, at standard temperature and pressure, before opening any equipment for any reason. Subpart F. [40 CFR 61.65(b)(6)(i)]
Which Months: All Year Statistical Basis: None specified
- 3 Duct any vinyl chloride removed from the equipment in accordance with 40 CFR 61.65(b)(6)(i) through a control system from which the concentration of vinyl chloride in the exhaust gas does not exceed 10 ppm (average for 3-hour period) or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(6)(ii)]

EQ123 Flare EIQ 83

- 4 Opacity \leq 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33:III.1105]
Which Months: All Year Statistical Basis: None specified
- 5 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 6 Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. [LAC 33:III.2115.B]
Which Months: All Year Statistical Basis: None specified
- 7 Halogenated hydrocarbons, total \geq 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ. [LAC 33:III.2115.F]
Which Months: All Year Statistical Basis: None specified
- 8 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate. [LAC 33:III.2115.J]
- 9 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.J.1]
- 10 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e. [LAC 33:III.2115.J.2]
- 11 Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115. [LAC 33:III.2115.J]
- 12 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]

EQ124 Vent Condenser T-585 EIQ 9Z1

- 13 Equip with a submerged fill pipe. [LAC 33:III.2103.A]
- 14 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

EQT124 Vent Condenser T-585 EIQ 9Z1

- 15 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
Which Months: All Year Statistical Basis: None specified
- 16 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 17 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.J]
- 18 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR Subpart F and G - Determined to be MACT. [LAC 33:III.5109.A]
- 19 Comply with the requirements of 40 CFR 63 Subparts G. Subpart F. [40 CFR 63.102(a)]
- 20 Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 21 Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 22 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel remains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]

EQT128 Furnace F-110 EIQ 79

- 23 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 24 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
- 25 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT133 Furnace F-106 EIQ LD

- 26 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 27 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
- 28 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
Activity Number: PER20040070
Permit Number: 2665-V7
Air - Title V Regular Permit Renewal

EQT137 **Scrubber Vent (C-431) EIQ YA**

- 29 Flow rate monitored by flow rate monitoring device once every four hours. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
- 30 Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]
- 31 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
- 32 Flow rate \geq 364 gallons/min. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
- 33 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. HCl is a Class III TAP. MACT is not required. [LAC 33:III.5109.A]

EQT138 **Cooling Tower EIQ YC**

- 34 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 63 Subpart F. Determined to be MACT. [LAC 33:III.5109.A]
- 35 Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 36 Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 37 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 38 Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 39 Heat exchange systems (cooling water): HAP monitored by the regulation's specified method(s) monthly for the first 6 months and quarterly thereafter to detect leaks. Monitor for total hazardous air pollutants, total volatile organic compounds, total organic carbon, one or more speciated HAP compounds, or other representative substances that would indicate the presence of a leak in the heat exchange system. Subpart F. [40 CFR 63.104(b)]
Which Months: All Year Statistical Basis: None specified
- 40 Heat exchange systems: Maintain, at all times, the monitoring plan currently in use. Maintain on-site, or accessible from a central location by computer or other means that provide access within 2 hours after a request. If a monitoring plan is superseded, retain the most recent superseded plan at least until 5 years from the date of its creation. Retain the superseded plan on-site (or accessible from a central location by computer or other means that provides access within 2 hours after a request) for at least 6 months after its creation. Subpart F. [40 CFR 63.104(c)(3)]
- 41 Heat exchange systems: Prepare and implement a monitoring plan that documents the procedures that will be used to detect leaks of process fluids into cooling water. Require monitoring of one or more surrogate indicators or monitoring of one or more process parameters or other conditions that indicate a leak. Include the information specified in 40 CFR 63.104(c)(1)(i) and (ii). Monitor no less frequently than monthly for the first six months and quarterly thereafter to detect leaks. If a substantial leak is identified by methods other than those described in the monitoring plan and method(s) specified in the plan could not detect the leak, revise the plan and document the basis for the changes. Complete revisions to the plan no later than 180 days after discovery of the leak. Subpart F. [40 CFR 63.104(c)]
- 42 Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 43 Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy continuously. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
Activity Number: PER20040070
Permit Number: 2665-V7
Air - Title V Regular Permit Renewal

EQT139 Surface Impoundment Sump 430 EIQ YD

- 44 Alternative control requirements may be requested. A 90% reduction exemption was requested and approved by LDEQ. [LAC 33:III.2153]
- 45 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR Subpart F and G - Determined to be MACT. [LAC 33:III.5109.A]
- 46 Comply with Subpart F for Maintenance Wastewater (40 CFR 64.105). The unit receives HON subject Maintenance Wastewater. [40 CFR 63.105]

EQT140 Analyzer Vents EIQ YF

- 47 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by LDEQ. No additional controls are required. [LAC 33:III.5109.A]

EQT141 Tank T-410 EIQ YG

- 48 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 61 Subpart FF. Determined to be MACT. [LAC 33:III.5109.A]
- 49 Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- 50 Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- 51 Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- 52 Install, operate, and maintain an enclosure and closed-vent system that routes all organic vapors vented from the tank, located inside the enclosure, to a control device in accordance with the requirements specified in 40 CFR 61.343(e). Subpart FF. [40 CFR 61.343(a)(2)]
- 53 Install, operate, and maintain a fixed-roof as specified in 40 CFR 61.343(a)(1)(c). Subpart FF. [40 CFR 61.343(b)(2)]
- 54 Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
Which Months: All Year Statistical Basis: None specified
- 55 Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 56 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]
- 57 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]
- 58 Comply with the reporting requirements in 40 CFR 60.115b. Subpart FF. [40 CFR 61.357(f)]
- 59 Shall control emissions as per the requirements of 40 CFR 61 Subpart FF. Carbon Adsorption unit with >95% control efficiency. [40 CFR 61 Subpart FF]

EQT144 Laboratory Hoods S-240 EIQ YJ

- 60 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall minimize sample sizes and return unused samples to the process. No additional controls are required. [LAC 33:III.5109.A]

EQT145 Tank T-510 (Filtrate Hold Tank) EIQ YL

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

EQT145 Tank T-510 (Filtrate Hold Tank) EIQ YL

61 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with 40 CFR 63.133(a) - determined to be MACT. [LAC 33:III.5109.A]

EQT146 Reactor R-201

62 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions are controlled by EQT 718 and 719 (Boilers F-410 and F420). Comply with 40 CFR 63, Subpart F and G - Determined to be MACT. [LAC 33:III.5109.A]

63 Vinyl chloride ≤ 0.2 g/kg (0.4 lb/ton) of the 100 percent ethylene dichloride product from the oxychlorination process, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.62(b)]

Which Months: All Year Statistical Basis: Three-hour average

64 Vinyl chloride ≤ 10 ppm, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.63(a)]

Which Months: All Year Statistical Basis: Three-hour average

65 Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]

66 Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]

67 Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]

68 Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]

69 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]

70 Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F. [40 CFR 61.68]

Which Months: All Year Statistical Basis: None specified

71 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]

72 Organic HAP ≥ 98 % reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3-percent oxygen. Subpart G. [40 CFR 63.113(a)(2)]

Which Months: All Year Statistical Basis: None specified

73 Organic HAP ≥ 98 % reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3% oxygen. Subpart G. [40 CFR 63.113(a)(2)]

Which Months: All Year Statistical Basis: None specified

74 Halogenated vent streams: Hydrogen halides and halogens ≥ 99 % reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(i)]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

EQT146 Reactor R-201

- 75 Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]
Which Months: All Year Statistical Basis: None specified
- 76 Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]
- 77 pH monitored by pH instrument continuously. Equip pH instrument with a continuous recorder. Monitor the pH of the scrubber effluent. Subpart G. [40 CFR 63.114(a)(4)(i)]
Which Months: All Year Statistical Basis: None specified
- 78 Flow rate monitored by flow rate monitoring device continuously. Equip the flow monitor with a continuous recorder and install at the scrubber influent for liquid flow. Determine gas flow using one of the procedures specified in 40 CFR 63.114(a)(4)(ii)(A) through (a)(4)(ii)(C). Subpart G. [40 CFR 63.114(a)(4)(ii)]
Which Months: All Year Statistical Basis: None specified
- 79 Compliance with process vent requirements constitutes compliance for all other vent requirements when emissions from process vents, transfer operations, storage vessels, process wastewater are combined vents per 40 CFR 63.112(e)(3)(ii). Vent system: Secure each valve in the vent system that would divert the vent stream to the atmosphere in a non-diverting position using a car seal or a lock-and-key type configuration; or equip with a flow indicator. Subpart G. [40 CFR 63.114(d)(1)]
- 80 Vent system: If car-seal has been broken or valve position changed, record that the duration of all periods that the seal mechanism is broken or the valve position has changed. Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the by-pass line. Subpart G. [40 CFR 63.114(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 81 Monitor the parameters specified in the Notification of Compliance Status required in 40 CFR 63.152(b) or in the operating permit and operate and maintain the control device such that the monitored parameters remain within the ranges specified in the Notification of Compliance Status. Subpart G. [40 CFR 63.114(e)]
- 82 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 83 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]
- 84 Prepare a design evaluation, which includes the information specified in 40 CFR 63.120(d)(1)(i), or submit the results of a performance test as described in 40 CFR 63.120(d)(1)(ii). Subpart G. [40 CFR 63.120(d)(1)]
- 85 Make a first attempt at repair as soon as practicable but no later than 5 calendar days after identification of gaps, cracks, tears, or holes in ductwork, piping, or connections to covers and control devices during an inspection. Complete repairs no later than 15 calendar days after identification of gaps, cracks, tears, or holes in ductwork, piping, or connections to covers and control devices during an inspection. Complete repairs no later than 15 calendar days after identification or discovery of the defect. Subpart G. [40 CFR 63.139(f)]
- 86 Vapor collection system or closed vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 87 Vapor collection system or closed vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
- 88 Repair leaks (as indicated by an instrument reading greater than 500 ppm above background or by visual inspections) as soon as practicable, except as provided in 40 CFR 63.148(e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). Subpart G. [40 CFR 63.148(d)]
- 89 Submit the information specified in 40 CFR 63.148(j)(1) through (j)(3) with the reports required by 40 CFR 63.182(b) of subpart H or 40 CFR 63.152(c). Subpart G. [40 CFR 63.148(j)]

EQT179 Pressure Swing Adsorption Unit

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
Activity Number: PER20040070
Permit Number: 2665-V7
Air - Title V Regular Permit Renewal

EQT179 Pressure Swing Adsorption Unit

90 Shall control emissions as per the requirements of 40 CFR 63.119(e)(1) through (e)(5). Pressure Swing Adsorption (PSA) unit with 98.5% control efficiency. [40 CFR 63.119(e)]

EQT839 Furnace Decoke Operation EIQ YB

- 91 Opacity \leq 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
- 92 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. There is a trace concentration of TAP/HAP in the decoke emissions which is too low to implement any controls; therefore, no additional control is required. [LAC 33:III.5109.A]

FUG007 Fugitives EIQ DW

- 93 Comply with 40 CFR 61 Subpart F- Emission Standards for Vinyl Chloride Plant, 40 CFR 61 Subpart V - NESHAP for Equipment Leaks, 40 CFR 60 Subparts VV - NSPS for Equipment Leaks of VOC in SOCMIs or Refineries, LAC 33:III.2122 - Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parish, and LAC 33:III.5109 - Emission Control and Reduction Requirements and Standards. Compliance is achieved through compliance with overall most stringent program- 40 CFR 63 Subpart H - HON. [LAC 33:III.501]
- 94 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with the requirements of NESHAP HON, Subpart H-determined to be MACT. [LAC 33:III.5109.A]
- 95 Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]
- 96 Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(f)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- 97 Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (j). If a reading of 10,000 ppm (phase D); 5,000 ppm (phase ID); or 5,000 ppm (phase III, pumps handling polymerizing monomers), 2,000 ppm (phase III, pumps in food/medical service), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]
- Which Months: All Year Statistical Basis: None specified
- 98 Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)]
- Which Months: All Year Statistical Basis: None specified
- 99 Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(c)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]
- 100 Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]
- 101 Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
Activity Number: PER20040070
Permit Number: 2665-V7
Air - Title V Regular Permit Renewal

FUG007 Fugitives EIQ DW

- 102 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(1)]
- 103 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(2)]
- 104 Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(3)]
- 105 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(4)]
- Which Months: All Year Statistical Basis: None specified
- 106 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)(i)]
- 107 Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)]
- 108 Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)]
- Which Months: All Year Statistical Basis: None specified
- 109 Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(1)]
- 110 Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(2)]
- Which Months: All Year Statistical Basis: None specified
- 111 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]
- 112 Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]
- 113 Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(c)]
- 114 Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

FUG007 Fugitives EIQ DW

- 115 Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]
- 116 Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]
- 117 Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Comply with this requirement instead of the requirements in 40 CFR 63.164(a) through (h). Subpart H. [40 CFR 63.164(i)(2)]
- Which Months: All Year Statistical Basis: None specified
- 118 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H. [40 CFR 63.164]
- Which Months: All Year Statistical Basis: None specified
- 119 Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
- Which Months: All Year Statistical Basis: None specified
- 120 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]
- 121 Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]
- Which Months: All Year Statistical Basis: None specified
- 122 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.165(a) and (b). Subpart H. [40 CFR 63.165(d)(2)]
- 123 Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H. [40 CFR 63.166]
- 124 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H. [40 CFR 63.167]
- 125 Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
- Which Months: All Year Statistical Basis: None specified
- 126 Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

FUG007 Fugitives EIQ DW

- 127 Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]
Which Months: All Year Statistical Basis: None specified
- 128 Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 129 Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]
- 130 Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]
Which Months: All Year Statistical Basis: None specified
- 131 Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]
- 132 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(1)]
- 133 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(2)]
Which Months: All Year Statistical Basis: None specified
- 134 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(1)]
- 135 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(3)]
Which Months: All Year Statistical Basis: None specified
- 136 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169(a)]
Which Months: All Year Statistical Basis: None specified
- 137 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

FUG007 Fugitives EIQ DW

- 138 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]
- 139 Closed-vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 140 Closed-vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 141 Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(j). Subpart H. [40 CFR 63.172(h)]
- 142 Closed-vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes. Install flow indicator at the entrance to any bypass line. Subpart H. [40 CFR 63.172(j)(1)]
- Which Months: All Year Statistical Basis: None specified
- 143 Closed-vent system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Generate records as specified in 40 CFR 63.118(a)(3). Subpart H. [40 CFR 63.172(j)(1)]
- 144 Closed-vent system (bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart H. [40 CFR 63.172(j)(2)]
- 145 Closed-vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart H. [40 CFR 63.172(j)(2)]
- Which Months: All Year Statistical Basis: None specified
- 146 Closed-vent system (unsafe-to-inspect): Demonstrate that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential dangers as a consequence of complying with 40 CFR 63.172(f)(1) or (f)(2). Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(1)]
- 147 Closed-vent system (unsafe-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times, but not more frequently than annually. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(2)]
- Which Months: All Year Statistical Basis: None specified
- 148 Closed-vent system (difficult-to-inspect): Demonstrate that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(1)]
- 149 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within 12 months after the compliance date, except as provided in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(1)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

FUG007 Fugitives EIQ DW

- 150 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within the first 12 months after initial startup or by no later than 12 months after the date of promulgation of a specific subpart that references 40 CFR 63 Subpart H, whichever is later, except as specified in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(2)]
Which Months: All Year Statistical Basis: None specified
- 151 Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]
Which Months: All Year Statistical Basis: None specified
- 152 Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]
Which Months: All Year Statistical Basis: None specified
- 153 Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 154 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169. Subpart H. [40 CFR 63.174(c)(2)(i)]
- 155 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]
Which Months: All Year Statistical Basis: None specified
- 156 Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]
- 157 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with 40 CFR 63.174(a) through (c). Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(1)]
- 158 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(2)]
Which Months: All Year Statistical Basis: None specified
- 159 Connectors in gas/vapor service or light liquid service (unsafe-to-repair): Demonstrate that repair personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.174(d). Comply with this requirement instead of the requirements in 40 CFR 63.174(a), (d), and (e). Subpart H. [40 CFR 63.174(g)]
- 160 Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Comply with this requirement instead of the monitoring requirements of 40 CFR 63.174(a) and (c) and from the recordkeeping and reporting requirements of 40 CFR 63.181 and 63.182. Subpart H. [40 CFR 63.174(h)(2)]
- 161 Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(i)(1) and (i)(2). Subpart H. [40 CFR 63.174(i)]
- 162 Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H. [40 CFR 63.180]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

FUG007 Fugitives EIQ DW

- 163 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H. [40 CFR 63.181]
- 164 Submit application: Due as soon as practicable before the construction or reconstruction is planned to commence (but it need not be sooner than 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H). Submit application for approval of construction or reconstruction required by 40 CFR 63.5(d) in lieu of the Initial Notification. Subpart H. [40 CFR 63.182(b)]
- 165 Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]
- 166 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. [40 CFR 63]

GRP021 PSA Unit Controlling Tanks

- 167 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
- Which Months: All Year Statistical Basis: None specified
- 168 Emissions are controlled by a pressure swing adsorption unit (with > 95% efficiency) as per the requirements of LAC 33:III.2103.E. [LAC 33:III.2103.E]
- 169 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3 a-e. [LAC 33:III.2103.H.3]
- 170 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 171 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with the requirements of 40 CFR 63, Subpart F and G. Pressure Swing Adsorption (PSA) unit has 98.5% control efficiency - Determined to be MACT. [LAC 33:III.5109.A]
- 172 Comply with the requirements of 40 CFR 63 Subparts G. Subpart F. [40 CFR 63.102(a)]
- 173 Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 174 Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 175 Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 176 Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 177 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 178 Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 179 Shall control emissions as per the requirements of 40 CFR 63.119(e)(1) through (e)(5). Pressure Swing Adsorption (PSA) unit with 98.5% control efficiency. [40 CFR 63.119(e)]
- 180 Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 181 Submit, as applicable, other reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(h). Subpart G. [40 CFR 63.122(a)(5)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP021 PSA Unit Controlling Tanks

182 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G. [40 CFR 63.123]

GRP039 Stormwater Tanks

183 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Shall comply with the requirements of 40 CFR 63, Subpart F and G - Determined to be MACT. [LAC 33:III.5109.A]

184 Comply with the applicable recordkeeping and reporting requirements specified in 40 CFR 63.146(b)(1) and 63.147(b)(8). [40 CFR 63.132(a)(3)]

GRP040 Furnaces

185 Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified

186 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average

187 Total suspended particulate \leq 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified

188 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

GRP128 VINYL II PLANT

189 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]

190 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]

191 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]

192 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]

193 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]

194 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]

195 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]

196 Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, trans-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene. (State Only). [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP128 VINYL II PLANT

197 Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only). [LAC 33:III.501.C.6]

- 198 1,2-Dichloroethane <= 17.78 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 199 Benzene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 200 Carbon tetrachloride <= 0.89 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 201 Ethylene glycol < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 202 Trichloroethylene <= 0.13 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 203 Vinyl chloride <= 4.91 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 204 Chloroethane <= 0.75 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 205 1,1,2-Trichloroethane <= 0.214 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 206 2,2'-dichlorodiethylether < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 207 Chlorobenzene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 208 1,4-Dichlorobenzene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 209 1,1-Dichloroethane <= 0.61 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 210 Vinylidene chloride < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 211 Methanol < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 212 Naphthalene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 213 1,2-Dichloropropane < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 214 Styrene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 215 1,1,2,2-Tetrachloroethane < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP128 VINYL II PLANT

- 216 1,3-Butadiene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 217 Chloroprene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 218 Hydrochloric acid <= 9.29 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 219 Chlorine <= 2.05 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 220 Propylene <= 5.41 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 221 Ethylene <= 6.75 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 222 Chloroform <= 1.29 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 223 1,1,1-Trichloroethane <= 0.13 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 224 Acetaldehyde < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 225 Carbon monoxide <= 111.91 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 226 Nitrogen oxides <= 178.51 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 227 Particulate matter (10 microns or less) <= 27.51 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 228 Sulfur dioxide <= 3.07 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 229 VOC, Total <= 121.47 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 230 Methyl chloride <= 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 231 Tetrachloroethylene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 232 Hexachloroethane < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 233 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 234 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 235 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 236 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP128 VINYL II PLANT

- 237 Submit Annual Emissions Report (TED): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 238 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 239 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 240 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.2]
- 241 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.3]
- 242 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 243 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 244 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 245 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.5111.A.1. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 246 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 247 Submit notification in writing: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up. [LAC 33:III.5113.A.1]
- 248 Submit notification in writing: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source. [LAC 33:III.5113.A.2]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP128 VINYL II PLANT

- 249 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 1st of July to the Department of Environmental Quality, Office of Environmental Services, Air Permits Division. Include the information in LAC 33:III.5307.A for the preceding calendar year. [LAC 33:III.5307.B]
- 250 Activate the preplanned abatement strategy listed in LAC 33:III.5611, Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 251 Activate the preplanned strategy listed in LAC 33:III.5611, Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 252 Activate the preplanned abatement strategy listed in LAC 33:III.5611, Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 253 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611, Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 254 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 255 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 256 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 257 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 258 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 259 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 260 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 261 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 262 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. [40 CFR 63]
- 263 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 264 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 265 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(ii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 266 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 267 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82. Subpart F]

GRP131 Drums and Tanks

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP131 Drums and Tanks

- 268 Emissions are controlled by EQT 718 and 719 (Thermal Treatment Units F-410 and F420). [LAC 33:III.2103.B]
- 269 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
Which Months: All Year Statistical Basis: None specified
- 270 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 271 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 272 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions are controlled by EQT 718 and 719 (Thermal Treatment Units: F-410 and F420). Shall comply with 40 CFR 63 Subpart F and G - determined to be MACT. [LAC 33:III.5109.A]
- 273 Emissions are controlled by EQT 718 and 719 (Thermal Treatment Units F-410 and F420). Vinyl chloride \leq 10 ppm. Subpart F. [40 CFR 61.65(b)]
Which Months: All Year Statistical Basis: Three-hour average
- 274 Vinyl chloride \leq 10 ppm as determined by the continuous emission monitor system required under 40 CFR 61.68. Subpart F. [40 CFR 61.65(d)(1)]
Which Months: All Year Statistical Basis: Three-hour average
- 275 Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]
- 276 Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
- 277 Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]
- 278 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
- 279 Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F. [40 CFR 61.68]
- Which Months: All Year Statistical Basis: None specified
- 280 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]
- 281 Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3-percent oxygen. Subpart G. [40 CFR 63.113(a)(2)]
Which Months: All Year Statistical Basis: None specified
- 282 Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3% oxygen. Subpart G. [40 CFR 63.113(a)(2)]
Which Months: All Year Statistical Basis: None specified
- 283 Halogenated vent streams: Hydrogen halides and halogens \geq 99 % reduction, or reduce the outlet mass of total hydrogen halides and halogens $<$ 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(i)]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
Activity Number: PER20040070
Permit Number: 2665-V7
Air - Title V Regular Permit Renewal

GRP131 Drums and Tanks

- 284 Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]
Which Months: All Year Statistical Basis: None specified
- 285 Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]
- 286 pH monitored by pH instrument continuously. Equip pH instrument with a continuous recorder. Monitor the pH of the scrubber effluent. Subpart G. [40 CFR 63.114(a)(4)(i)]
Which Months: All Year Statistical Basis: None specified
- 287 Flow rate monitored by flow rate monitoring device continuously. Equip the flow monitor with a continuous recorder and install at the scrubber influent for liquid flow. Determine gas flow using one of the procedures specified in 40 CFR 63.114(a)(4)(ii)(A) through (a)(4)(ii)(C). Subpart G. [40 CFR 63.114(a)(4)(ii)]
Which Months: All Year Statistical Basis: None specified
- 288 Compliance with process vent requirements constitutes compliance for all other vent requirements when emissions from process vents, transfer operations, storage vessels, process wastewater are combined vents per 40 CFR 63.112(e)(3)(ii). Vent system: Secure each valve in the vent system that would divert the vent stream to the atmosphere in a non-diverting position using a car seal or a lock-and-key type configuration; or equip with a flow indicator. Subpart G. [40 CFR 63.114(d)(1)]
- 289 Vent system: If car-seal has been broken or valve position changed, record that the duration of all periods that the seal mechanism is broken or the valve position has changed. Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the by-pass line. Subpart G. [40 CFR 63.114(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 290 Monitor the parameters specified in the Notification of Compliance Status required in 40 CFR 63.152(b) or in the operating permit and operate and maintain the control device such that the monitored parameters remain within the ranges specified in the Notification of Compliance Status. Subpart G. [40 CFR 63.114(e)]
- 291 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 292 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]
- 293 Prepare a design evaluation, which includes the information specified in 40 CFR 63.120(d)(1)(i), or submit the results of a performance test as described in 40 CFR 63.120(d)(1)(ii). Subpart G. [40 CFR 63.120(d)(1)]
- 294 Make a first attempt at repair as soon as practicable but no later than 5 calendar days after identification of gaps, cracks, tears, or holes in ductwork, piping, or connections to covers and control devices during an inspection. Complete repairs no later than 15 calendar days after identification or discovery of the defect. Subpart G. [40 CFR 63.139(f)]
- 295 Vapor collection system or closed vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 296 Vapor collection system or closed vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
- 297 Repair leaks (as indicated by an instrument reading greater than 500 ppm above background or by visual inspections) as soon as practicable, except as provided in 40 CFR 63.148(e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). Subpart G. [40 CFR 63.148(d)]
- 298 Submit the information specified in 40 CFR 63.148(j)(1) through (j)(3) with the reports required by 40 CFR 63.182(b) of subpart H or 40 CFR 63.152(c). Subpart G. [40 CFR 63.148(j)]

GRP132 Tanks

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP132 Tanks

- 299 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
Which Months: All Year Statistical Basis: None specified
- 300 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 301 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 302 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with 40 CFR 63, Subpart F and G. Emissions are controlled by EQT 718 and 719 (Thermal Treatment Units: F-410 and F420) - Determined to be MACT. [LAC 33:III.5109.A]
- 303 Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3-percent oxygen. Subpart G. [40 CFR 63.113(a)(2)]
Which Months: All Year Statistical Basis: None specified
- 304 Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3% oxygen. Subpart G. [40 CFR 63.113(a)(2)]
Which Months: All Year Statistical Basis: None specified
- 305 Halogenated vent streams: Hydrogen halides and halogens \geq 99 % reduction, or reduce the outlet mass of total hydrogen halides and halogens $<$ 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 306 Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]
Which Months: All Year Statistical Basis: None specified
- 307 Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]
- 308 pH monitored by pH instrument continuously. Equip pH instrument with a continuous recorder. Monitor the pH of the scrubber effluent. Subpart G. [40 CFR 63.114(a)(4)(i)]
Which Months: All Year Statistical Basis: None specified
- 309 Flow rate monitored by flow rate monitoring device continuously. Equip the flow monitor with a continuous recorder and install at the scrubber influent for liquid flow. Determine gas flow using one of the procedures specified in 40 CFR 63.114(a)(4)(ii)(A) through (a)(4)(ii)(C). Subpart G. [40 CFR 63.114(a)(4)(ii)]
Which Months: All Year Statistical Basis: None specified
- 310 Compliance with process vent requirements constitutes compliance for all other vent requirements when emissions from process vents, transfer operations, storage vessels, process wastewater are combined vents per 40 CFR 63.112(e)(3)(ii). Vent system: Secure each valve in the vent system that would divert the vent stream to the atmosphere in a non-diverting position using a car seal or a lock-and-key type configuration; or equip with a flow indicator. Subpart G. [40 CFR 63.114(d)(1)]
- 311 Vent system: If car-seal has been broken or valve position changed, record that the duration of all periods that the seal mechanism is broken or the valve position has changed. Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the by-pass line. Subpart G. [40 CFR 63.114(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 312 Monitor the parameters specified in the Notification of Compliance Status required in 40 CFR 63.152(b) or in the operating permit and operate and maintain the control device such that the monitored parameters remain within the ranges specified in the Notification of Compliance Status. Subpart G. [40 CFR 63.114(e)]
- 313 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP132 Tanks

- 314 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]
- 315 Prepare a design evaluation, which includes the information specified in 40 CFR 63.120(d)(1)(i), or submit the results of a performance test as described in 40 CFR 63.120(d)(1)(ii). Subpart G. [40 CFR 63.120(d)(1)]
- 316 Make a first attempt at repair as soon as practicable but no later than 5 calendar days after identification of gaps, cracks, tears, or holes in ductwork, piping, or connections to covers and control devices during an inspection. Complete repairs no later than 15 calendar days after identification or discovery of the defect. Subpart G. [40 CFR 63.139(f)]
- 317 Vapor collection system or closed vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 318 Vapor collection system or closed vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
- 319 Repair leaks (as indicated by an instrument reading greater than 500 ppm above background or by visual inspections) as soon as practicable, except as provided in 40 CFR 63.148(e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). Subpart G. [40 CFR 63.148(d)]
- 320 Submit the information specified in 40 CFR 63.148(j)(1) through (j)(3) with the reports required by 40 CFR 63.182(b) of subpart H or 40 CFR 63.152(c). Subpart G. [40 CFR 63.148(j)]

GRP133 Non-NSPS Distillation Columns

- 321 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions are controlled by EQT 718 and 719 (Boilers F-410 and F420). Comply with 40 CFR 63, Subpart F and G - Determined to be MACT. [LAC 33:III.5109.A]
- 322 Vinyl chloride \leq 10 ppm, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.63(a)]
Which Months: All Year Statistical Basis: Three-hour average
- 323 Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]
- 324 Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
- 325 Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]
- 326 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
- 327 Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F. [40 CFR 61.68]
Which Months: All Year Statistical Basis: None specified
- 328 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP133 Non-NSPS Distillation Columns

- 329 Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3-percent oxygen. Subpart G. [40 CFR 63.113(a)(2)]
Which Months: All Year Statistical Basis: None specified
- 330 Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3% oxygen. Subpart G. [40 CFR 63.113(a)(2)]
Which Months: All Year Statistical Basis: None specified
- 331 Halogenated vent streams: Hydrogen halides and halogens \geq 99 % reduction, or reduce the outlet mass of total hydrogen halides and halogens $<$ 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 332 Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]
Which Months: All Year Statistical Basis: None specified
- 333 Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]
Which Months: All Year Statistical Basis: None specified
- 334 pH monitored by pH instrument continuously. Equip pH instrument with a continuous recorder. Monitor the pH of the scrubber effluent. Subpart G. [40 CFR 63.114(a)(4)(i)]
Which Months: All Year Statistical Basis: None specified
- 335 Flow rate monitored by flow rate monitoring device continuously. Equip the flow monitor with a continuous recorder and install at the scrubber influent for liquid flow. Determine gas flow using one of the procedures specified in 40 CFR 63.114(a)(4)(ii)(A) through (a)(4)(ii)(C). Subpart G. [40 CFR 63.114(a)(4)(ii)]
Which Months: All Year Statistical Basis: None specified
- 336 Compliance with process vent requirements constitutes compliance for all other vent requirements when emissions from process vents, transfer operations, storage vessels, non-diverting position are combined vents per 40 CFR 63.112(e)(3)(ii). Vent system: Secure each valve in the vent system that would divert the vent stream to the atmosphere in a non-diverting position using a car seal or a lock-and-key type configuration; or equip with a flow indicator. Subpart G. [40 CFR 63.114(d)(1)]
- 337 Vent system: If car-seal has been broken or valve position changed, record that the duration of all periods that the seal mechanism is broken or the valve position has changed. Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the by-pass line. Subpart G. [40 CFR 63.114(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 338 Monitor the parameters specified in the Notification of Compliance Status required in 40 CFR 63.152(b) or in the operating permit and operate and maintain the control device such that the monitored parameters remain within the ranges specified in the Notification of Compliance Status. Subpart G. [40 CFR 63.114(e)]
- 339 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 340 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]
- 341 Prepare a design evaluation, which includes the information specified in 40 CFR 63.120(d)(1)(i), or submit the results of a performance test as described in 40 CFR 63.120(d)(1)(ii). Subpart G. [40 CFR 63.120(d)(1)]
- 342 Make a first attempt at repair as soon as practicable but no later than 5 calendar days after identification of gaps, cracks, tears, or holes in ductwork, piping, or connections to covers and control devices during an inspection. Complete repairs no later than 15 calendar days after identification or discovery of the defect. Subpart G. [40 CFR 63.139(f)]
- 343 Vapor collection system or closed vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(1)(i)]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP133 Non-NSPS Distillation Columns

- 344 Vapor collection system or closed vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
- 345 Repair leaks (as indicated by an instrument reading greater than 500 ppm above background or by visual inspections) as soon as practicable, except as provided in 40 CFR 63.148(e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). Subpart G. [40 CFR 63.148(d)]
- 346 Submit the information specified in 40 CFR 63.148(j)(1) through (j)(3) with the reports required by 40 CFR 63.182(b) of subpart H or 40 CFR 63.152(c). Subpart G. [40 CFR 63.148(j)]

GRP134 NSPS Distillation Columns

- 347 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions are controlled by EQT 718 and 719 (Boilers F-410 and F420). Comply with 40 CFR 61 Subpart F, 40 CFR 63, Subpart F and G - Determined to be MACT. [LAC 33:III.5109.A]
- 348 Vinyl chloride \leq 10 ppm, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.63(a)]
Which Months: All Year Statistical Basis: Three-hour average
- 349 Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]
- 350 Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
- 351 Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]
- 352 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
- 353 Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(i) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F. [40 CFR 61.68]
- Which Months: All Year Statistical Basis: None specified
- 354 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]
- 355 Per 40 CFR 63.110(d)(6), a Group 1 process vent subject to NSPS, Subpart NNN and NESHAP subpart G, is required to comply with NESHAP Subpart G. [40 CFR 63.110(d)(6)]
- 356 Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3-percent oxygen. Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 357 Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3% oxygen. Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AIID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP134 NSPS Distillation Columns

- 358 Halogenated vent streams: Hydrogen halides and halogens $\geq 99\%$ reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 359 Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]
Which Months: All Year Statistical Basis: None specified
- 360 Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]
- 361 pH monitored by pH instrument continuously. Equip pH instrument with a continuous recorder. Monitor the pH of the scrubber effluent. Subpart G. [40 CFR 63.114(a)(4)(i)]
Which Months: All Year Statistical Basis: None specified
- 362 Flow rate monitored by flow rate monitoring device continuously. Equip the flow monitor with a continuous recorder and install at the scrubber influent for liquid flow. Determine gas flow using one of the procedures specified in 40 CFR 63.114(a)(4)(i)(A) through (a)(4)(ii)(C). Subpart G. [40 CFR 63.114(a)(4)(ii)]
Which Months: All Year Statistical Basis: None specified
- 363 Compliance with process vent requirements constitutes compliance for all other vent requirements when emissions from process vents, transfer operations, storage vessels, process wastewater are combined vents per 40 CFR 63.112(e)(3)(ii). Vent system: Secure each valve in the vent system that would divert the vent stream to the atmosphere in a non-diverting position using a car seal or a lock-and-key type configuration; or equip with a flow indicator. Subpart G. [40 CFR 63.114(d)(1)]
- 364 Vent system: If car-seal has been broken or valve position changed, record that the duration of all periods that the seal mechanism is broken or the valve position has changed. Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the by-pass line. Subpart G. [40 CFR 63.114(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 365 Monitor the parameters specified in the Notification of Compliance Status required in 40 CFR 63.152(b) or in the operating permit and operate and maintain the control device such that the monitored parameters remain within the ranges specified in the Notification of Compliance Status. Subpart G. [40 CFR 63.114(e)]
- 366 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 367 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]
- 368 Prepare a design evaluation, which includes the information specified in 40 CFR 63.120(d)(1)(i), or submit the results of a performance test as described in 40 CFR 63.120(d)(1)(ii). Subpart G. [40 CFR 63.120(d)(1)]
- 369 Make a first attempt at repair as soon as practicable but no later than 5 calendar days after identification of gaps, cracks, tears, or holes in ductwork, piping, or connections to covers and control devices during an inspection. Complete repairs no later than 15 calendar days after identification or discovery of the defect. Subpart G. [40 CFR 63.139(f)]
- 370 Vapor collection system or closed vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 371 Vapor collection system or closed vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
- 372 Repair leaks (as indicated by an instrument reading greater than 500 ppm above background or by visual inspections) as soon as practicable, except as provided in 40 CFR 63.148(e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). Subpart G. [40 CFR 63.148(d)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP134 NSPS Distillation Columns

373 Submit the information specified in 40 CFR 63.148(j)(1) through (j)(3) with the reports required by 40 CFR 63.182(b) of subpart H or 40 CFR 63.152(c). Subpart G. [40 CFR 63.148(j)]

GRP135 Reactors

374 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions are controlled by EQT 718 and 719 (Boilers F-410 and F420). Comply with 40 CFR 63, Subpart F and G - Determined to be MACT. [LAC 33:III.5109.A]

375 Vinyl chloride \leq 0.2 g/kg (0.4 lb/ton) of the 100 percent ethylene dichloride product from the oxychlorination process, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.62(b)]

Which Months: All Year Statistical Basis: Three-hour average

376 Vinyl chloride \leq 10 ppm, except as provided in 40 CFR 61.65(a). Subpart F. [40 CFR 61.63(a)]

Which Months: All Year Statistical Basis: Three-hour average

377 Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]

378 Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]

379 Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]

380 Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]

381 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]

382 Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a), and 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F. [40 CFR 61.68]

Which Months: All Year Statistical Basis: None specified

383 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]

384 Per 40 CFR 63.110(d)(7), a Group 1 process vent subject to NSPS, Subpart RRR and NESHAP, Subpart G is required to comply with NESHAP, Subpart G. [40 CFR 63.110(d)(7)]

385 Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3-percent oxygen. Subpart G. [40 CFR 63.113(a)(2)]

Which Months: All Year Statistical Basis: None specified

386 Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3% oxygen. Subpart G. [40 CFR 63.113(a)(2)]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP135

Reactors

- 387 Halogenated vent streams: Hydrogen halides and halogens \geq 99 % reduction, or reduce the outlet mass of total hydrogen halides and halogens $<$ 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 388 Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]
Which Months: All Year Statistical Basis: None specified
- 389 Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]
- 390 pH monitored by pH instrument continuously. Equip pH instrument with a continuous recorder. Monitor the pH of the scrubber effluent. Subpart G. [40 CFR 63.114(a)(4)(i)]
Which Months: All Year Statistical Basis: None specified
- 391 Flow rate monitored by flow rate monitoring device continuously. Equip the flow monitor with a continuous recorder and install at the scrubber influent for liquid flow.
Determine gas flow using one of the procedures specified in 40 CFR 63.114(a)(4)(ii)(A) through (a)(4)(ii)(C). Subpart G. [40 CFR 63.114(a)(4)(ii)]
Which Months: All Year Statistical Basis: None specified
- 392 Compliance with process vent requirements constitutes compliance for all other vent requirements when emissions from process vents, transfer operations, storage vessels, process wastewater are combined vents per 40 CFR 63.112(e)(3)(ii). Vent system: Secure each valve in the vent system that would divert the vent stream to the atmosphere in a non-diverting position using a car seal or a lock-and-key type configuration; or equip with a flow indicator. Subpart G. [40 CFR 63.114(d)(1)]
- 393 Vent system: If car-seal has been broken or valve position changed, record that the duration of all periods that the seal mechanism is broken or the valve position has changed.
Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the by-pass line. Subpart G. [40 CFR 63.114(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 394 Monitor the parameters specified in the Notification of Compliance Status required in 40 CFR 63.152(b) or in the operating permit and operate and maintain the control device such that the monitored parameters remain within the ranges specified in the Notification of Compliance Status. Subpart G. [40 CFR 63.114(e)]
- 395 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 396 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]
- 397 Prepare a design evaluation, which includes the information specified in 40 CFR 63.120(d)(1)(i), or submit the results of a performance test as described in 40 CFR 63.120(d)(1)(ii). Subpart G. [40 CFR 63.120(d)(1)]
- 398 Make a first attempt at repair as soon as practicable but no later than 5 calendar days after identification of gaps, cracks, tears, or holes in ductwork, piping, or connections to covers and control devices during an inspection. Complete repairs no later than 15 calendar days after identification or discovery of the defect. Subpart G. [40 CFR 63.139(f)]
- 399 Vapor collection system or closed vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 400 Vapor collection system or closed vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
- 401 Repair leaks (as indicated by an instrument reading greater than 500 ppm above background or by visual inspections) as soon as practicable, except as provided in 40 CFR 63.148(e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). Subpart G. [40 CFR 63.148(d)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP135 **Reactors**

402 Submit the information specified in 40 CFR 63.148(j)(1) through (j)(3) with the reports required by 40 CFR 63.182(b) of subpart H or 40 CFR 63.152(c). Subpart G. [40 CFR 63.148(j)]

GRP150 **VCM Ship/Tank Car Loading**

- 403 Equip with a vapor collection system consisting of, at a minimum, a vapor return line which returns all vapors displaced during loading to the VOC dispensing vessel or to a disposal system. [LAC 33:III.2107.B]
- 404 VOC, Total \geq 90 % DRE, using a vapor disposal system. [LAC 33:III.2107.B]
Which Months: All Year Statistical Basis: None specified
- 405 Prevent spills during the attachment and disconnection of filling lines or arms. Equip loading and vapor lines with fittings which close automatically when disconnected, or equip to permit residual VOC in the loading line to discharge into a collection system or disposal or recycling system. [LAC 33:III.2107.B]
- 406 VOC, Total monitored by visual, audible, and/or olfactory during loading or unloading, to detect leaks. [LAC 33:III.2107.C]
Which Months: All Year Statistical Basis: None specified
- 407 Discontinue loading or unloading through the affected transfer lines when a leak is observed; do not resume loading or unloading until the observed leak is repaired. [LAC 33:III.2107.C]
- 408 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2107.D.1 and 2. [LAC 33:III.2107.D]
- 409 Determine compliance with LAC 33:III.2107.B using the methods in LAC 33:III.2107.E.1 through 5, as appropriate. [LAC 33:III.2107.E]
- 410 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions are controlled by EQT 718 and 719 (Boilers F-410 and F420). Comply with 40 CFR 61 Subpart F, 40 CFR 63, Subpart F and G - Determined to be MACT. [LAC 33:III.5109.A]
- 411 Relief valves: Do not discharge to the atmosphere from any relief valve on any equipment in vinyl chloride service, except for an emergency relief discharge, and except as provided in 40 CFR 61.65(d). Subpart F. [40 CFR 61.65(a)]
- 412 Relief valves: Submit report in writing within 10 days of any relief valve discharge, except for those subject to 40 CFR 61.65(d). Submit a report containing information on the source, nature and cause of the discharge, the date and time of the discharge, the approximate total vinyl chloride loss during the discharge, the method used for determining the vinyl chloride loss (the calculation of the vinyl chloride loss), the action that was taken to prevent the discharge, and measures adopted to prevent future discharges. Subpart F. [40 CFR 61.65(a)]
- 413 Loading and unloading lines: Vinyl chloride \leq 0.0038 m^3 (0.13 ft^3) at standard pressure, in all parts of each loading or unloading line that are to be opened to the atmosphere, after each loading or unloading operation and before opening a loading or unloading line to the atmosphere. Subpart F. [40 CFR 61.65(b)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 414 Loading and unloading lines: Duct any vinyl chloride removed from a loading or unloading line in accordance with 40 CFR 61.65(b)(1)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(1)(ii)]
- 415 Slip gauges: Minimize vinyl chloride emissions during loading or unloading operations by ducting any vinyl chloride discharged from the slip gauge through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(2)]
- 416 Incorporate the requirements in 40 CFR 61.65(b)(1), (b)(2), (b)(5), (b)(6), (b)(7), and (b)(8) into a standard operating procedure, and make available upon request for inspection by DEQ. Include provisions for measuring the vinyl chloride in equipment 4.75 m^3 (1255 gal) in volume for which an emission limit is prescribed in 40 CFR 61.65(b)(6)(i) after opening the equipment and using Method 106, a portable hydrocarbon detector, or an alternative method. Subpart F. [40 CFR 61.65(c)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040070

Permit Number: 2665-V7

Air - Title V Regular Permit Renewal

GRP150 VCM Ship/Tank Car Loading

- 417 Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]
- 418 Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
- 419 Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]
- 420 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
- 421 Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(i) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F. [40 CFR 61.68]
- Which Months: All Year Statistical Basis: None specified
- 422 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]
- 423 Comply with the requirements of 40 CFR 63 Subparts G. Subpart F. [40 CFR 63.102(a)]
- 424 Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3-percent oxygen. Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 425 Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). For combustion devices, calculate emission reduction or concentration on a dry basis, corrected to 3% oxygen. Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 426 Halogenated vent streams: Hydrogen halides and halogens \geq 99 % reduction, or reduce the outlet mass of total hydrogen halides and halogens $<$ 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 427 Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]
- Which Months: All Year Statistical Basis: None specified
- 428 Temperature monitored by temperature monitoring device continuously. Equip the temperature monitoring device with a continuous recorder and install in the firebox or in the ductwork immediately downstream of the firebox in a position before any substantial heat exchange occurs. Subpart G. [40 CFR 63.114(a)(1)]
- 429 pH monitored by pH instrument continuously. Equip pH instrument with a continuous recorder. Monitor the pH of the scrubber effluent. Subpart G. [40 CFR 63.114(a)(4)(i)]
- Which Months: All Year Statistical Basis: None specified
- 430 Flow rate monitored by flow rate monitoring device continuously. Equip the flow monitor with a continuous recorder and install at the scrubber influent for liquid flow. Determine gas flow using one of the procedures specified in 40 CFR 63.114(a)(4)(i)(A) through (a)(4)(ii)(C). Subpart G. [40 CFR 63.114(a)(4)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 431 Compliance with process vent requirements constitutes compliance for all other vent requirements when emissions from process vents, transfer operations, storage vessels, process wastewater are combined vents per 40 CFR 63.112(e)(3)(ii). Vent system: Secure each valve in the vent system that would divert the vent stream to the atmosphere in a non-diverting position using a car seal or a lock-and-key type configuration; or equip with a flow indicator. Subpart G. [40 CFR 63.114(d)(1)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
Activity Number: PER20040070
Permit Number: 2665-V7
Air - Title V Regular Permit Renewal

GRP150 VCM Ship/Tank Car Loading

- 432 Vent system: If car-seal has been broken or valve position changed, record that the duration of all periods that the seal mechanism is broken or the valve position has changed. Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the by-pass line. Subpart G. [40 CFR 63.114(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 433 Monitor the parameters specified in the Notification of Compliance Status required in 40 CFR 63.152(b) or in the operating permit and operate and maintain the control device such that the monitored parameters remain within the ranges specified in the Notification of Compliance Status. Subpart G. [40 CFR 63.114(e)]
- 434 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 435 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.118(a)(1) through (a)(4). Subpart G. [40 CFR 63.118(a)]
- 436 Prepare a design evaluation, which includes the information specified in 40 CFR 63.120(d)(1)(i), or submit the results of a performance test as described in 40 CFR 63.120(d)(1)(ii). Subpart G. [40 CFR 63.120(d)(1)]
- 437 Make a first attempt at repair as soon as practicable but no later than 5 calendar days after identification of gaps, cracks, tears, or holes in ductwork, piping, or connections to covers and control devices during an inspection. Complete repairs no later than 15 calendar days after identification or discovery of the defect. Subpart G. [40 CFR 63.139(f)]
- 438 Vapor collection system or closed vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.148(c). Subpart G. [40 CFR 63.148(b)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 439 Vapor collection system or closed vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. Subpart G. [40 CFR 63.148(b)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
- 440 Repair leaks (as indicated by an instrument reading greater than 500 ppm above background or by visual inspections) as soon as practicable, except as provided in 40 CFR 63.148(e). Make a first attempt at repair no later than 5 calendar days after the leak is detected. Complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.148(d)(3). Subpart G. [40 CFR 63.148(d)]
- 441 Submit the information specified in 40 CFR 63.148(j)(1) through (j)(3) with the reports required by 40 CFR 63.182(b) of subpart H or 40 CFR 63.152(c). Subpart G. [40 CFR 63.148(j)]